



International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN M D Chicago
PROF PAUL LECÈNE PARIS France
SIR BERKFLEY MOYNIHAN A C M G C B Leeds England

SUMBER L KOCH MD Abstract Editor

Volume XXXVIII
January to June 19 4

C VA
THE SURGICAL PUBLISHING COMPANY
OF CHICAGO



INTERNATIONAL ABSTRACT OF SUFCIES

111

CONSULTING ADDITIONAL STATE

GENELAL SUKCELLA

GANECOLOGY AND OBSTETLICS

MERIC FARET UNDERS BROOK M VASUAL WE SELVE JEDO J M BEED CANNA W BER KETT HERMAN J BOLLT J WES AF BOTH LEFEN BROUK JIEWET JEHOO D JI C CLARK THOMAS SCULLEN LEVARI P DAVIS J SE I B DELEC R BESTL D CALSON WA A MAN DE NOOL C CLARK THOLOGO ES SERVE CORRESS LEEP JAMES FOR AN ABOUT GEORGE CELES R. J RANGE COS DESTRUCTION OF SERVE CORRESS LEVE FOR AN ABOUT LEVEL J LLOS AFT HI LEND FERNAL LANGE WATER P MAN ON L. L. MONTONE S CEOFER C MOSTER HEAVET NOW NO GOOGE IL LANGE WATER P MAN ON L. L. MONTONE S CEOFER C MOSTER HEAVET NOW NO GOOGE IL LANGE B PARDO K CHRISTS B FERNAL P FERNAL P PREESS NOW ACCORDED TWITH WILLIAMS STAN WHILL M S STANDON FOR CONTROL OF SERVE AND THE SERVE AND THE MAN OF SERVE MAN OF SERVE AND THE MAN OF S

CENITO URI ARY SURGEIN

AMERICA MILIANE BADD WEDLEY BELFIELD JOSEPH L BOING L W BREIS IN HE HALADO JONN R CARLE CHE LES H CHET GOD JOE H CHAIN HE HE R CHEF H A ROPERTHERN T DEBARD L KEVE HE CLEF HOLDER AND A STROME HE RESERVE HE SCHOOL HOUSE HE FEBRUARD A STROME HE RESERVE HE SCHOOL HE SCHOOL HE SCHOOL HE STROME HE HE HE HE HE HE HE LES AND A STROME HE SCHOOL HE SCHOOL HE SCHOOL HE SCHOOL HE SCHOOL HE SCHOOL HE HE HE HE HE HE HE HE LES AND A STROME HE SCHOOL HE SCHO

CONSULTING EDITORIAL STALF-CONTINUED

ORTHOLIDIC SURCELY

ROFNTCENOLOGY

MIRICA I) W.C. II. RC. D.CAR. JAM T.C. F.L.C. T.CRACO. I F.R. M. H. H. H. T. C. R.C. J. H. R. N.S. L. L. C. R.F.P.F. L. H. T.P.TTFR. CANADA S. C. GARANA M. N. H. I.I.

SULCERY OF THE 1A1

MIRICA INTERNATIONS NOTH FROM IT IN MINISTER FOR BOTH TO MINISTER FOR BOTH TO MINISTER BOTH TO MINISTER BOTH TO MINISTER MINISTER

SURCEAN OF THE FAL

IMERICA IAT W.D. M. A.C. 1711. J.F.Mck. No. 1.11. I. S.M. CLI.
S. CANDA B.S. 1711. LACLAND Mr. H.C.I. 1711. SCOTIAND A LOCAL TRIP.
BRILAND S. R. 1711. M. I.

SURCERY OF THE NOSE THROAT AND MOUTH

AMERICA J CB1 TM2 LEIU T JHERI CHALLERJ SO JHA MK 1 C PM R 1 JH F 1 R AUSTRALIA A W JB A



INTERNATIONAL ABSTRACT OF SURGERY

ABSTRACT EDITORIAL STAFF

DEPARTMENT EDITORS

DEAN D LEWIS-GENERAL SURGERY PHILLIP LEWIN-ORTHOPEDIC SURGERY CARL A HEDBLOM-CHEST SURGERY

ADOLI II II ARTUNG-ROENTGENOLON Y CHARLES B PEED-Grandood and Obstetrics JAMES P FITZGURALD—SLRGER OF THE LIVE LOUIS C SCHMIDT—GEART URLERS SURGERY FRANK J NOLVE JR —SURGERY OF THE LIVE NOW AND THROAT

GENERAL SUI GERY

MIRICA CLAYTON I ANDREW LOWEN A BAUMCARTNER GLORGE L BELLINY MALRICA A BERNSTEIN RAIPE B BETTHINN P CL R BILLIN SLEY I FOWARD BISHAON A W BRANN AFRIC C BURDEN WALTER C BURLET HAROLD M CAMP TREDERICK CHRISTOPHER DENNIS M CRITE TOYAL E DAVY JOHN L DIES AMOUND DEDUCE LOUIS S FAIST HERE WILL L H FORLER CERT J GLASPEL POBERT M GRIER M MICKES II S HETT FRESCH L. HAS EL T. M. HAS FRANCIS T. II DOLBLER WILLIAM A HENDRICKS MARCIS H HOB RT MERIE R HOO LIVETE HOLCK CAROL F J MESON MERRIS H KANN SAMUEL KANN DENVISH KALLI FE LIR ON TERRELLY R LEWIS JAMES & H. MAGOUN JR. RUDOLPH MARX M. L. MASON GEORG R. MCMLEPF S JOSEPHINE MCCOLLIN HOWARD & MCKNEHT DAY MPLLE. BEN MOR GAN ARTHUR C MULLER A B MURPHS INILED J MURPHY O CAR E NOBEL WALTER H NADLER CARL D ASTROCED LOUI MELBELT JOH W NIZEW MILLIAM J PICKETT O S PROCTOR JAMES V RICCI FMIL C ROBITS IEA STANLEY J SEEGER WILLIAM L SHACKLETON ARTHUR L SHREFFLER KELLOGG SPEED CARL P STRIVE PALL II SWEET ED VI R TALBOT SIDNEY B TRATTAR HARRY L UNGERLEIDER MILLIAM P TANTI CENEY BY NIAD ROSCIE C WEBB JOHN I NOIFFE C CORBIN LANCEY FIGLIND PERCHALI COLE ARTEUR EDWO DE MILLIAM CILLIATT FRICPI GOLLD ROBERT F ARLLY T B LEG B C MAYBURY FELTY ROOD B SANGSTER SIMONDS HAROLD UPCOTT SCOTLAND JOHN FRASER A P. MI ON IL HENRY WADE D P D WILLIE IRELAND R ATLINSON STONEY

GYNICOLOGY AND OBSTETRICS

MERICA I EDWARD BISEROW WILLIAM B CAMP ELL DOWARD L CORNELL R S CRON CARL H DAVIS ALE RT F D CROST SALVATORE DI PALMA VIRGIL F DIDWAY HARRY IL FISA CHRISTIAN D MALCH RO COL JEPSON C FISKE JONES HARLEY B MATTHEWS JAMES ! RICCI WAITER! STRINBER RALLOND F WATERS CANADA JAME R GOODALL H M LITTLE ENGLAND HARDLD CHAPPLE HAROLD C 1 SED F H LACEY W FLETCHER SHAW CLIFFORD WHITE IRPLAND BETHEL SOLONONS

GENITO URINARY SURGERY

AMERICA JAMES D BARNEY JOHN G CHE THAM Theodore Deozdowitz Joseph S Etsensthedt THOMAS F FINEGAY HARRY A FOWLER LOUIS GROSS ID MARD F HESS C D HOLMES HERMAN L KRET SCHMER VICTOR D LESPINASSE J MES A H MACOLY JR OSCAR E NADEAU LOUIS NEUBPLT CLARENCE, R OCRONALY JOHN PO'NED CLAUDE D PICKRELL HARRY W PLAGGMEYER BEY MIN F ROLLIFE HEYRY L SA O.D. CHERRY J. THOMAS HERRY W. F. W. 1878

ABSTRACT EDITORIAL STAFF-CONTINUED

ORTHOPEDIC SURGERY

AMERICA TANAS JERMHI E MILLI WH BYFORD FAR CHW LARRUHINES MILLIAWA CLARA DE 71 N CHU H A DERSAM RO FRETA FE STEN BALVEY JH N. R. REVORD LJEFFER DANIEL H LE 17 HAL PHUFF LVI R C LO BECA JOHN MITCHELL B W MODIFUT BER RIPER H MODEL FR K GW WENT JOHN WI HWE S LE RED PRICE RECONSHES SERICH CONSTRUCT RESEARCH WAS DESCRIBED A DE SAME CONTROL MAD DE SERIE STORT DANIEL SERIES CONSTRUCT SERIES CONTROL MAD DE SERIES CONTROL

ROI NTGENOLOGY AND RADIUM THERAPY

IMPRICA WILLIAM L B WA ADOLPH HARTLAG C REES H H ACKE ALOS ES J LAR

SURCERY OF THE EVE

MMERICA T AD AL MIGHT SE DANNA FI SC TE SASCUTE A GENALOTI C DEY C MAYE DENNATE SCOTLAND JHAPAR ARTHUR II SINCU JUSA WILSON

SURCERY OF THE EAK

IMBRICA GLYL BADF JI C. BR. L. J. THOMAS C. C. LLD. AA. I REACT IA HAVSEL A. R. HOLLE DR. THOM I O.C. OR. OTT. M. ROTT. E. P. SCHISTER B. A. SCHISTER W. B. STAR. M. D. R. W. LTZ. CANADA. W. H. JAHF PAGLAND. G. J. JF. RE. SCOTLAND. J. S. FRANSER IRELIAND. T. O.G. 1444

SURCERY OF THE NOSE THROAT AND MOUTH

MERICA C LB v J w CB v ell J Mattern V Lo spiel C tas W Fr man Towls C C o F H K H E A R H Letor T Ox P OC v Otto W Rott F P v te v N Sch W B v k W R W Lt z



IANUARY 19-4

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

TRANKLIN II MARTIN Chicago SIR BLRKELLY MOYNIHAN, K.CMG CB Leeds I AUL LECUNT Paris

SUMNER L. KOCH Abstract Editor

DEPARTMENT FOITORS

DIAN D LIWIS General Surg ry CHARLES B REED Cyn cology and Object JAMES P ITTZCTRALD Surgert of the Tye TOUIS E SCHMIDT Genit I in m Surgery - TRANK J NOVAK Jr Surgery of all Ear PHILLI LIWIN Onlopedia Surgery

ADOLI II HARTUNG Roentgenology I se and Ti roat

CONTENTS

1	Authors	ii
11	In lex of Abstracts of Current Literature	111
Ш	I liters Comment	x
11	11 tracts of Current Literature	1-65
١	Billi graphy of Current Literature	(9 +6

12 o 1 moment on hould event to half their theory a Mad gend on Chicano to a halfour or Maria 1974 that girld of the form to S.A. The duration of the "err Times" (A Cos Allie betto by Chem Cerl in London to Co

VULHORS

OF THE ORIGINAL CONTRIBUTIONS WHICH ARE ABSTRACTED IN THIS NUMBER

\(\text{Mm F 0} \) \(\text{Mm F 1} \) \(\text{N R \ 34} \) \(\text{R \ 34} \) \(D M any F 3 D 1 M 1 1 2 D 1 M 1 1 2 D 1 M 1 1 2 D 2 M 1 2 2 D 3 M 1 2 2 D 3 M 1 2 3 D 4 M 1 2 3 D 4 M 1 2 3 D 5 M 1 2 3 D 6 7 M 1 2 3 D 7 M 1 3 D 7 M 1 3 3 D 7 M 1 3 D 7 M 1 3 3 D 7 M 1 3 D 7 M 1 3 3 D 7 M 1 3 D 7 M 1 3 3 D 7 M 1 3 D 7 M 1 3 D 7 M 1 3 3 D 7 M 1		I m M M M M M M M M M



CONTENTS-IANUARY, 1924

ABSTRACTS OF CURRENT LITERATURE

tı n

3

5

SURGERY	OF	THE	HEAD	AND	NECK	ORATOR th 1	
SURGERY	OF	THE	HEAD	AND	NECK		

I	Ĭ	e	a	đ	

KALL NBAC [A Exp n es wil O te myelit s of the Skull

ONTÉ L Bl teral S ppur try Ia tit in N vise n I fu t VOIONTE L

VRA CANT A The T atment of Pftd Fstulze
by 1 t n fthe Gl d ьўî The Te time tof Poges eF runculos s LAPWEY of the F ce

CADENAT F F tula of the Chi

Driano E C c om [the Submar lla y Gl d

VANDER HOEVE J Th klt as Bet eath Eye

BELL GH Frither Oler ti s a N W thod

[Pev nt glo tope t Int a Ocul r Infec
t R pot [1 30 S re ful C es M thod t Pool (1 50 Ste fol Ces cL VW My Exp 1 c in W kig ith D Br quer Brcl v McL

Far

Loss II K Ott M j C mpleat g Oper tin IN DER HOEVE J Th Rel ti Bte the Tv nd F

Nose Patrini A At se f Rh

phyma

Wans Cad Cutur GR dgaphy fth
Suse the lace
Armic Le MI Systm Mafst s fS p
prieDsesseith Paasal Stues

Mouth

Hirsci reld I \ cent I fet nof the Mouth

Throat

Son ensor et R. M. h l Inje ti n. a. a Pos. 1. Maju et to To. llect my. nde Loc l Marsth s. a. HRK 188 t [a] ROLK J L I st perat e Comi t n T 1 Ca e

DAVIS E D D Cysts I th Lary v PRIGGS H H Tube culo s of the Larynx

Neck

GOBBI I Co gen tal Cysts f the \c k

Nev to ats of \ v in the Evaluat n f th Pha ma odynami Te t of I' ct on Al C ntributi n on the Goet ch Adren lin Test Aloa BOOTH Y W M a d SANDIFORD I The Tot land the Altrogen us Metal 1 m 11 I yophthalmi

Gost r

MAN H F phthalm c G it in Childhood v th Some Unus al M n festati ns HEIMAN H Walton \ J The Su gery f th Thyr id Cland
I Adenomata—Coll d Gorte II Exophthal

m c Coste JUST E The P t perative Temp ratu c Foll 1 g

Strumectomy FISIANI G M Mal gnant Adenoma of the P ra

thyroid Int atr che l Tumo of the Thyr d MAIER O th the Rep tofa Ca Cued by Op a

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Cover ngs Cran al Nerves Lyo H R Otit's Med Conplicat g Operatio's

on the G s erran Ganglion BAGGEY L. JR. Ext. 1. Hemo hagic L tr. asa f. n f om the Ven us System f Cale with Cl. n. c. 1 Syndrome. A k port. f Thee Fatal Cases with Ti. Necrop es

^

LETON W.P. It drlSur ery in Its Relt n to Abc s f the Ban FA LETON W P

WEIGELDT W 1 I ff to n in the D agn and Sp 1 Cord D case (Ban and Sp 1 Cord D case

NK W The Dang r of Lumbar E eph lograf by

FRE NEL 5 The Roentgen Dagnos s f Tumors of the budit ty her e

6 Spinal Cord and Its Coverings

JAROSCHY W Late Injuries to the Sp | C | 1 m | C | ngemt | Scol | s | a | d | Their Surgical T | e | t me t

PEISER A Laly S gical Tratment f Acute Pol omyelit s

6

17

17

17

17

mors P ripheral Nerves

- C 15f 1, y J T* C sesof Com fth Bachall D to Hyper Lrostit trop by fill fram erse I meeses of the Ses with Cerva 11 teli
- Dr M RY F and W 15 E J ATu w Prolatty I Sen Ti U De el ; mi the 6 tre ưñ
- G I estis to a 1th In W EDLEST & f th Abd minal W II

Sympatheti Nerves

- Vadt er til Thilfectolf It It recallsympath to prott keeps
- t ry M * Lapenar tilk se re south Lift til Perzi s 11 n Vt sal Symp th t my
- 1 Th Lat Results a 1 L f rite kes it 11 n A t ri 15 mpathest my rathe Appl t 1 Tis Operat n t th 1 e tment
- fart and stick gine D Burne D 1 estat of luc ral Se b to The Incibity fR! IgAg 1 ec t t is lesection fille I'mt not Root title
- Cotes 1 g p 1 Nenes HRUE V To Ope to Tr time to fix gosposition Attack Lepe By Vin Fe to in
- N sco T lese tin of the Symp th ti f 4 i lect is
- T Th Effect of B trll tr thora te Symp II otomy itte tm h Milat

Miscellaneon

JOSAJA The Cret palfill: Illu Re-1 tt t th Ilmination ft;

SURGERY OF THE CHEST

- Chest Wall d Breast LLFA 1 Tum rs fth M ! Breast
- Trach a L ngs and Pleura MAILE O I t tra 1 1 T mors f th Thyro 1
- Cla I with th Report fa Cas Cu ed by Opera * n HAUKE II Ti racor | sty | T berculous I the
- 1 23 NAFGERT T Th S goal Tr tment f Br ch ct sı
- 10 WIT FLOT II L. The Roe tg nol gy of Cag I th 1 ung

Œsorh gus d Mediastinum

I CESON C I r al I: doscopy-Ca d pasm Pre triculosis o 1 e ntricular Stenosis

- C foother R. Se e Cases of I harying (East Sugral Di ticu.a .. VINSON I P Cat inoma I the G-sopharus
 - SAUTRERICH F T p Imonary F pos re I the (Leophage
 - Las & Melat al Tmr the k cognition of t uct it m

10

10

67

11

10

20

21

21

#3

21

23

24

34

25

Miscellaneous

II r Tax I AM that I Oht g White Access to the Chest Ca str W thout C us g Second try iki or ty ith The at

SURCERY OF THE ABDOMEY

Abdominal Wall and P ritoneum Stranger C I establing field to

- ofte the mi ! Wall In or I 5 times the tangulat fire mail It to e Du t At rad I at m of th
- Mesent ry Kost tit A. Dire Carri f Le. Det Defect
- in th Meer t ry C ccr 1 \ Ti (u | f Acut Purplert D # se
- ler tonit by I tapenton 11 je tion 1 ul ph t litter HILLIE II The Sugar I Tr tm tof Da use
- nton ! CATHLANES CAR II TO OLIMOILD
- t rost my i A ut I nt t 15 A FL (W The It & T a Ulmporta e of the
- C) tro-D at a-Colic 1 [1 15

10 Gastro-I testin I Tract

- W MERS 1 W Lostoperati Hemo thages of the Ga tro-I test al Tra t WIN FT Th Lifet fillet rlint ath raic
- amount of my 1 the ct not my promite Mitri thoofth tim b
- BLINY C D see of th Stoma b Movem 31 the ! I'm esta ti n
- k t ff tot cilt tilltrag with Eq ilkefrene to the Use of \ t fint his with Lare
- Cuen t. I a I But I It Hem r hages t Chro k A t ti -Ilam t u Smill N 1 t stantenal Uk tf t
- Lul teen Month C II C ClitII to inth Dugmest
- (in 13 t (1 st C. I Acut I forat of th St matha !
- Dod rum tha kepert (Set Cases
- Our a i Jas The Tre im at ! I forsted Gastra Ul r Lerf ted Duod no Lyl re Uk rs Hirzenne an & Ul er Clatel fith St mach
- Bigs T The Simey I (as the and Duckl al the mad The thomplat in
- BENNTY I I The Ea ly Diag we of C neer f the St ma h by M IC tri Analysi :8 WART FELDER W T The 1 sents n Diag sas f
 - Firt I B Can er I the St mach A ke Inty Oper tily 1 I the Least I oved Lins



ARENS R A Gall Bladder Disease with Special

SCHWARZ O H and McNalley F P Changes in the Uterine Vessels During Pregnancy

INTERNATIONAL ABSTRACT OF SURGERY

KLOSE H a d ROSENBAUM CANNÉ P A Contribu		Agens R A Gall Bladder Disease with Special Reference to the Fluoroscopic Findings	34
Experiment 1 Studies of the V rious Sutures 2	26	BACCARANI U A Spec al Reaction of the Colon of	
MUTTER and FOURCHE Arrest of Inte tinal Rotation	26	Bihary Origin FOWLER R S A Co ideration of Tumor as a	35
SCHMUZIGER P I tuss cepts n with Esp cial	26	Symptom of Gall Bladder Disease Uffreduzzi O Cholelithia is f om the Surgical	35
DESCARPENTRIES The Cas sof Intestinal In agina		Point of View	35
ti n in Child en Lagror F Submes nteric Strangulati n of the	27	HG12 Results of Gall Stone Surgery WALZEL The Treatment of Stones in the C mmon	36
Small Intestine Due t Abnormal Inse t on of the	27	D ct	36
Mese tery ROSENFELD A Three Cas of He s Due to D fects		SAVARIAUD Accidental Di 15 on f the Common Duct in Ret ograde Cholecystectomy	37
in the Mesentery	7 27	Jupp E S The Condition of the Common Duct Afte Cholecystect my	37
DENK W Repeat d Resect of the Stomach	•	CLAIRMONT P Injuries of the Pancreas D rin and After Resect on of the Duod um for Ulce	38
	28	PREIONI C Hæmo hagic Pancreatit s Due to Ser	-
JOHNSON J A M kel's D ticulum as an Etio I gi I Facto n Intestinal Ob truction A Re		pent \ nom Francois R Tuberculosis of the Spl n in the Form	38
p tof The Case	28	of a Cold Abscess Splenectomy Reco ery	38
SOLIERI S C genital and Acquired Defo mity f the Il o-Cæ o-Appendicular Ph a Caused by Ileocæcal Po itional Ste s	28	M scellaneous	
Gosser A C neer of the Lower End of the Small		POTOTSCHNIG G Chronic Icte s f om T b reulos	
I t the Treated by D p Rad otherapy afte Heosigmoid A ast m E tirpation at a Second		of the Glands of the Hepato Duodenal L gament	38
Operation a Det 1 d Hist logic Study BURNETT F L The Int stinal Rate and the Form of	28	GYNECOLOGY	
the Fæc s	9	Uterus	
GIACINTO G Th Su g 1 T e tment of Megacolon LOGAN A H Thre C e f Chronic Ul erati e	9	COMBIER V MURARD J and CHIFOLIAU A Repot n Eight C s s f G nit l P olapse T eated by	
Col tis Cured by Iod ne MILLER R T JR Cancer of the Colon	30 30	P rtial C lpocl s s GERNEZ Pat 1 C lpocleisis as a Method of Treating	39
RANKIN F W. d SCHOLL A J Resection of the Proximal C 1 n f Mal gn cy	30	G tal P olapse FORSDIKE S The Treatment of Seve e Uterine	39
CHATON I's e Case of Surg ry f th Colon	3	Hæm h ge by Radium	39
HOLMGREN E Cha ges in the Struct e of the In tet n M n Assoc ated with the F rmation of		MARTINDALE L Menorthagi T ated by Inten e X Ray The apy	39
an Artifi i l An Seben A Retrocæ l Incare t on of a Retr p	31	Savariaud a d Degrais In pe able Epith I ma of th Neck of the Ut rus C ettage and Radium	
tone i lie n a	3	Te tme t A Cure f Mo e Than Ten Years	39
JENNINGS J E The Rôle of Bacillus Welchii in G g ou Appe dcts nd the Use of the		Adnexal and Peri Uterine Conditions	
Antitovin of Bull and Pritch tt a Its Treatm nt Mamágan J M Chroni Appe dicitis in Infancy		MARCHAND L. and ADAM E. Fatal Stat & Englen-	
Lower W E and Joves T E S gery of the Appendi	31	t cus in a W m n with a Go ter Wh Was S b ject d to O ph ectomy Hypophys 1 Hæm	
DAVID V C C genital St cture of the R ctum in	3	thag ALLEN E nd Doisy E A An O arian Horm ne	9
Child n FINSTERE H The Op ative T e timent of P o-	32	A Pr liminary R po t on Its Localization Extacts n a d Pa t l Purification and Action in	
laps f the R ct m LANDSMAN A A Bleeding from the Rectum	3	Test Anim is Ramón y Cajal P The Genesis of Dermo d Cysts of	39
BACCARANI U A Special Reacti n of the C lon of Biliary Origin		the U ary	49
* *	35	LIPS L Discuss on on the T eatment of Acute	
L ver Gall Bladder Pancreas and Spleen Kummer L. Te mng of the Right B a ch of the		S Iping tis	43
H pat c Duct Operati n Recory ELISCHER E A D cus n of Bihary Cysts in Con	34	OBSTETRICS	
nection with the Report f a Cyst of the Hen tie		Pregnancy and Its Complications	
Duct the Size of Man s H ad Which Was Re m ved by Ope ation	14	Schwarz O H and McNalley F P Changes in	

34

43

43

41

45

45

46

46

46

47

47

47

48

48

48

49

W MEER CI A d OLDEFCITS E The Tet ment f the Tuber ulou I eg ant W man BER (AV S I AT bo Abdom nal E ta Ut n P g y f N M ths

HENRTY J. L. let 1 c Gest t f O e I u

L bor and Its Complicat ons

Mrs. A. Cl. | Stules of a Ne. Analge | r. Obttr. | lan | Cyncol g al Pate | Cmr I | The Shift a Tt tf | Floor B d | Its I th g s

Puerperium and Its Comol cat o s

So te i S S pi r t e Arthrit f th Symphys
P! D gil I rpe m

Newborn

Voont L BitrisppriePtt

GENITO URINARY SURGERY

Adrenal K dney and Ureter

III dispers II The Section of the Land II I dispers II The Section II I dispersion of the Land II dispersion of the

FRUM RG T b Is I th Bldd ad Kdy
PP Th Th qc f N ph t my C se f
Lang I g | St
Sams J I Tl Tr I th
S gry fth Kly

E no G i pl i I i i h ki y
O Sd Bf e phet my th Oth
Vi dC fR | I T be I is
NEUMA VC fD bl kd y Rem d by
Op t
SERIA W TI L i R lt fT pl t

LISKE A M. TI. L. IR. It. IT. pl. t. t. fth. U. te. t. th. It. t.

CHE 488 M. V. d. t. fm. V. esth. a. I. d. with. N. O. d. th. P. Ope at. e. D. t. m. t. fk. II. t.

Bl dde Urethr nd Pen s

Burr H C J d Folds G S G ad 1
Empty gith O D t d d Bl dd
Bownsor M N Th R p d ty f St e F rma
t inth Bladd
Source J B sgm t J K ct i the Bl dd
f Neopl m

f Neopl m JEP E AC ITtlI'trpat fth Blad JASTRAW M Th T tment of I ; r s f the Male U thra

50

54

54

54

5

56

Gen tal Organs

Day R V P rt 1 d S p p b c l rostat t ray a d th Ch f Op at on n Typ f C es 51

NAVENERS S R d WALD-CHMER R H Tub r c los f the Fpd d jmu

4. rsto B and Barovi C The Craft g f a V th V Defe eas

M scellan

JORDA v J V Th C b p !F] dan! It Re

kati t th Elmi t n f U

SURGERY OF THE BONES JOINTS MUSCLES

Cond tions of the Bones Joints Muscl's Tend as Etc Asher Rs. A. P. C. Brome R. S. a. d White C. Y. C. t. D sease I th. B. A. St. dy I

Fite C se

AUSBAY TW Cas | G | beeal Arthrit s T | ted |
by I tra Art cul I | cu | s | f A | tig noc ec

S rum

VATER AHM T F rih L pe ces in the T t
m t f Arth t de w th H gh Doses of Rad um

Scar A Th Etclgy f Dupuyte's Cottect

C UL UD P nost 1Ot s com Ar ingf m the
Lo E i fth F mu F il r f D ep Raio
th pp D t it n f the H p t der Pre
ve ti Hæm t by M mb g Method 53

Pe th De e 53

Surgery of the Bones Joints M seles T do s Etc.
M yer \ Hu O test my 5:

Hirsh S d S RN RG \ Th T tm t f Ch m D f rm g J t D Go sell K Th T tm t f 1 hemi Co t ac t by F Tr pl tt f M l

Gefore R Rm 1 fth Ptll Tr plnt
t fth Ptll f C 1 thth S
u dig L m t Afte I t Mc h 1
Result Mt F X

Lag K. Th F t l Pgn f Tnd

Fractur and D sl c tio s

SCHUBER 1. Th R po blty fithe S geo fr th D lpm t fIschem C tracture 55 CLAV LIN Isol ted F t es f the C dyle of th H m ru 55

Orthop dies in General

Congan R J Th Ft 1gy dD g os fB k

VAN N CK M V CI C'catri es f th Limbs

57

57

58

58

60

10

21

46

29

30

3

12

37

39

50

50

57

60

SURGERY OF BLOOD AND LYMPH SYSTEMS

Blood Vessels

Wiedentoner Effect of \ eFreezing a d Per Ar ternal Sympath ctomy on the Vessel of the Limb Chills of I and Blum J F sau e Hamo thag a Due to Chro e \ titu kofnic F Chang a in the Blood I ressue Due to

Ope to Froe du e

Mentager 1 The Surg cal la tomy of the Vessels

of the I en hymat us Org ns

RAINOWITZ H M E periment n th Inf cti s
Or gin of Th mbo hun its Obliter ns a d the
Isolatu of Spec fc O kan m from the Bl od

Blood and Transfusion

Hans A Stepanovitch M a LARNOVIJEVITCH A TI Coagulate g Act on f Hypophy eal E t a t

NAGY \ He Treatme t i Hæm hag s by
Ro tgen Irrad atı of the Sple n
C)riff R G H Blood Tran iu n \ Study of 45

Lymph Vessels and Glands

JANUARY OF THE PROPERTY OF THE

SURGICAL TECHNIQUE

Operative S rgery and Techn que Postoperative Treatment

Harries G I d kock J I P toper to e
C mf t Tn IC ses
Sufficient 1 Trangulm and Lupo re of th
G-optagu

G-oplagu 19
Narg Li T Tle Surg c l Tratment f Bron ha

Higgs Tons I Method 10t 1 gW le Acces t th Chest C v to th ut Ca 1 g Second ry D i n ty ftle Th ra

WALER ALW I toper to elfem rift ges f the
(to litest | lir ct
ALS II I LOSENBULK CANE I V Cont. Inc.

At 5 II INDEPENDENT CASE I Cont but the new Supers fits 5t meth. Comparise Figure in I Stude I fit e Valou 5xt. Circtyo G. The S. goal Trainte to Ungo of Kever F. W. I South. J. Kesset of the

Kinki F W | Sci II \ J | Kesect of th Iron | I C ! | f | M | Igns | y Ci iro | I | e C ses | Surg ty of the Col n

FINSTERER II TI Ope att e T atm nt 1 Iro

SALARINET TO I TED to of the C mm n D ct n R tropt i Cl lecystect my CL IRMONT P I ju es I the P as Dun ga d

Mice Resect in fith D finum to Uke

Com the Mirken and C trouse. A Report on
Fatt Case f Ge talled per Treated by Par
to 1C Ipod

GERNEZ Part: I Colpoclessi as a Method f Treating Genutal Prolapse 39

PAPPA Techn que of Vephrotomy in Cases of Large
Irr gular Stones

47

SUMMERS J E. The Transs rise Incision in the S sery of the kild ley 47 LAEMORN G Exploratory Exposur of the kild ey

on One S de B 1 e rephrectomy on the Other n

SQUIER J B Segme tal Resection of the Bladder for Neoplasm

JASTRAM M The T catment of Injuries of the Mal Urethra

MEYER A Hinge O teot my

GOEBELL R The Treatme t of Ischam c Control

ture by I ex Tran plantati n of Muscle

MELNIKOFF A The Sure cal An tomy of the Ves Is

of the Parenchymatous O ga s

JASSEMETERS WOINO W The T p graphy of the
Ingu nal and the Ext rnal Iliac Lymph Nodes and
th Techn que f Th ir Fxtirpat on

Antisept c Surgery T eatment of Wounds and Infections

Salwes G Intr enous Trypafla n The apy in Sept c Cond ti s

Sept c Cond it s

MUNA J Magn si m Sulf hate I n mata in the

Tre iment of T tanus

61

I steem at II C rel Dik n T catme t— In Improveme t in Adju ting the Tul es in Sup f cal Wounds

Anæsthesia

Some schern R. Alcohol Ing. tons as a P. s ble
Adjunct to Ton ill ctomy und r Local Anæsth si
Batmann E. A. asthesia P. of lems. 61

RAPOPORT B Obse at us on Annesthe ia with a I port of 1 500 Consec ti e Cases

CHELASSE II I cid nts f om lina thes a Induced
with lit o O de Th lie Operati e Deter
1 ton of Re all un ti

METGE I Experinces with 100 Cales f Splan hn c Anasthes a I i ed by the kapp Method 62

PHYSICO CHEMICAL METHODS IN SURGERY

Roentgenology Morus C a i Chaluer G Ralog phy of the

Snuses fth I ce IRENALL S The Roentgen Dig > 18 (Tumors of

gr ne of the Lu g

WAITTHEIDER W The Roe tgen D gn ss of Ca
mato s Ulce

mato s Ulce

Ref rence to the FI oroscope I ad gs

Visitionals L. Menorth gta Treated by I to ave

Visitionals I. Menorth gta Treated by I to ave

Visitionals II and Libra H. The Sen t. t. of

the Adr n ls t Irrad to nd Methods of Pre

at a thad I will give Penten Y A. Tl. Treat ent fill = 1 me by Romine I to ft ler H II III bt Ti If the Nia 1 lly beer y 20141 f i el trest

TE 1 11 ILEVe trol 5 s T t 11 . 11 , CILM 7 84 H 1 of et tel er il me all a tot mit t

1r m 11 e la la rat c Dar t Ca V 1 TE 1 Let Charles -1-1 t 1 terr At Chien 11 t.

141 71 Dike D × 4. 1 3 11 1 Utar DIALKA HAL ANIA ¢, B MARKE ٠, knill it ril oct et LATE W Kx walr 11h D

A 17 Mar III The Treat of a Port 1 t of I would the Aue R dum 5 The Treme t f eti e

He rbyk 12 to NID to the 1 6 Testantief M Thail to at in time the t Les at

MISCFLLAMEOUS Chnical Entit es Gen rat Physi ogic I Cond tions Person A At se f Rt negtyma

He see I M t I of a feled ab I II II T we it lanes I (II To II or allegens to Ciliani II

Brittle D I rall sitter od the F 111 1 P C - 26 (70 1 1

10 1. fr are to plot to be tweether that a start that HI Transferred after TIOT I •

7 11 t ff int the early the later 4-1-4 2 1 1 11 3 7) Tr \$ 6 TC to 1, 1 % 11 2 11 6 * ** ែកធីកាទី (កំ

G erelle t ut Me to antireta.oraliet we . . 1 1 14 4 F L

De" Cards

11151 Marcher line at 1 ---

Sorg call that ey and D ge

Isrlit Ill re 1 and 1 10.1 -- (' I I) ACTAL TO GROOM ITH NOW C 141

ITO TELTE CHE K s it is not itelar a 11 a stitute i will e 1 471 LAVYSE & EL

Tuns A Brarll Cirls. yt I w w 1!

Him W H by Can Llina I . MI LATEL

INTERNATIONAL ABSTRACT OF SURCERY

BIBLIOGRAPHY

Surgery of the Head and Neck		Gen to Urinary Surgery	
Head Fye Ear	69 69	Adrenal K d ey and U et r Bl dd r Ureth a and Penis Gen i 10 gans	9 08 8 8
Nose Mouth Th t Ack	0 7 1 71	M scell neous Surgery of the Bones Joints Muscles Tendons	
Surgery of the Nervous System		Cond t ns of the Bones Jo ts Mucle Tend ns Fite S recry f the Bones J t Muschs Te dons	81
Brain a lit C erm s Cr 1 N rs s Spi al C d nd lis C rn g lentl ral N es Symp thet c N res	72 3	It Fact e nd D locat hs Ortl ped cs in Gen al	82 83 83
M « lla e us	3	Surgery of the Blood and Lymph Systems	
Surgery of the Chest Ch tW Hand Brea t Trache Lu s snllleura	73 73	Rlood Lessel Blood and Tra fus Lympl Ve is and Glands	83 83 84
Hea ta d I e ic. I um (Esophagus a d M I tinum Miscellaneou	4 4 74	Surgical Techn que Oper ti e Surgery a d T chn que Po trpe ative	
Surgery of the Abdomen		Treatment Intiseptic Surg by T eatment of W unis and	84
Ntdom 1 W Han i Peritoneum (stro-Intest 1 Fract I	74 74 (Infect ons inaxinesia Su bical Instruments and App ratus	84 84 85
Gynecology	••	Physico Chemical Methods is Surgery	
Ut no 15 I a d I Ut nn Co diti ns I xtern 1 Genitali Misc llane	77 77 78 8	Rochtgenol gv R dium M scellaneou	85 85
Obstetrics		M scellaneous	
l regnancy 11 is C mplicat institution of 11 is C mplicat institution of the C mplication of the C mplicat	75 9 79	Cinclifinites—Gener Hibysilg cal Conditions General Bact Mycotic and Iroto oan I feet to ns D tless Cland	8; 86
Yest -	79	5 gical Path logy and D gn x s	8

EDITOR'S COMMENT

FIGURE ery practical and imit reant subject of surgery of the Ultra tractisa, ain represented by a number f helpful an l interestin, abtract in the curr nt number of the AnsigaCr morehen ive di cu ion on the con lition files mn n lust ifter ch lecostect mis (r. 3.) feer est ricularattenti n I fi cus un n the treatment f t nes in the comm n duct leil's Wal el at the 4 tl Cerman Surgical Con rest (1 0) (1) ar sum of the or mion of a number f the lea lin. Cerman sur ons n the ulict I ex nd caper to II to (c. 16) cresented at the um meeting cites the results with reference to re urrence and m reality in 12 000 cases operated unx n for call st nes. The m reality rate - 212 it at a conclurably h her than that given Ly most vinters 1. Aren comprehen ive discus in f the Xra fin lines in rall Haller di case (p (4)) another interesting contribution to the ut rect of gall thad ler surgery

I number of 1 spees in the surgery of the structure in intertures in it is month's number of the An rayer see with of pecul attents in 6th on s tudy of saxts i.e. feature perfection of the st nixth and due thour (p. 2) represents an unusual op returnts and experiment in the treatment of this critical condition. Here we would full case is from the and due should like the very off raft case is from the full time of the methods of the fine and the results obtained at the Acentyberg films and the results obtained at the Acentyberg.

Annor a recommen fut in of the u c of neutral anticals in gaster therapy (p. 21). It its discussion of the symptoms in fully cress of cut cer of the tomach demonstrated 1, operation (p. 21) and 1600 et side cry time of a case of cincer of the mall intertine treated by primary ideometric monosta and interpolation further part of the mall interpolation (p. 21) touch on which the properties of the primary ideometric monosta and interpolation (p. 21) touch on which the primary ideometric monosta and interpolation (p. 21) touch on which the primary ideometric monosta and the

In erpent l ut n ne the less interesting phases of gr tro intestinal survers

I discu in n on the treatment of acute salt in gitts led by Bourne at a recent precture of the Butt h Medical A sociation (p. 41) in licates a definite tendency toward active interference rather than watchful expectance in the treatment of a inexal inflammation. Conservation of ovari an function is put forwar las an important argu ment in favor of early interference. A pr liminary ret at by len an ID 1 v (p 30) of the di covers of an active ovarian hormone derived from the liquor fallict h of the ovary and incidentally the negative result of tamod is the use of commercial ovarian and corpus luteum extracts will be carefully noted by genec 1 acrd surferns. The repertly Six irrawland Degrais(1 19) of a rationt with in perible cittl h ma of the cervic who remained well ten years after curettement and rillation i also werths of note

In the field of observing times.

In the field of observince Weamensch and Oll rechts (1/42) review the experience of a constead he number of German Italian and I rench I tetracians in the manny in it of prepancy in the tuberculous patient and duce is at length that position in a favor of medial treatment as opposed to the transmitted abortion.

A number of other papers on rather wifel special subjects in this month is use of the Markey me with of peculi attents in the subject of the Markey me with of peculi attents of the Markey me and surface of the subject of the subjec

INTERNATIONAL ABSTRACT OF SURGERY

TANUARY 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

kallenbach A Experiences with Osteomyelit's of the Skull (L l h ng n eb Sh edelo temyelt) B t ll Ch 923 c 1 725

O teomychits of the cranial bones may be the result of an injury causing an area of dimini hed resistance to bacteria already present in the body Other cause, are ringing furuncles phlegmons and infectious die eases such as typhoid fever

Ily to the pre ent tim only twenty two cases of o town eiths of the vall of the crimin has been reported in the literature. The frontal and temporal bone are the parts most often involved. The main danger of this condition; involvement of the meninges and the bruin. I he die ease focus should be removed as soon as possible with a circ. I ard bone forcer. Illowitzers. (2)

Nonté L Bilateral Suppurative Parotiti in a Note o infant (Potential of Supur doun ecién no douncement douncem

Volontés ca e was that of a clild a month old which as born at term. When the patient as first vanue et he ew segent defina. Il over the body and pus a sa found in the right ear. Later bilateral parottit d veloped. Culture of the pus showed sta phylococci.

I can we of the patients p or g n ral cand timthe c I ma and th fever th author behaved the par titts was due to harmtogenous infect on of the gland feell ing triple drainage exhells h d simultann u h through the car through Steen on s duct will the ugh surgical incisions in the gland the rittent recover d W 1 Bressan

Vr ncein A The Treatment of Potid Fistules by Internation of the Gland (Betagou Behtlugd Printla i hint rugd Druse) (iji digg 81)

Fight years before he consulted the author the patient a g | 21 years old had suffered with noma

following in acute exanthematon infection A resulting fathi persisted for a lon, time. When it finally closed the right parotid region become swollen and painful. The pain escaed suddenly with the appearance of a discharge from the ear which appearance of a discharge from the ear which gradually assumed a cloudy serious character and resisted every form of treatment. The right side of the face showed irregular dieply retracted scars and the excretory duct of the parotid gland could not be found. In the external auditory, canal was a small polyp covering a fistulous opening from which secretion drained e-pecially during pre sure on the parotid gland and cheming. The diagnosis was alwan institute.

Operation consisted of resection of the parotide branch of the auneulotemporal nerve by the Lenche method Tollowing this procedure the secretion from the fistula ceased entirely in one week. Later the scars in the check were extripated and the region was covered with an autoplastic flap from the neck. Wonterview (Z)

Laewen The Treatment of Progress ve Furuncu losts of the Face (that rsuchu g n zur Bel andlu g forts h entend fur nkulosest froc em ('s cht) 47 let m i d de 1 h Ge Bach f Ch 1923

In the last three years the unbor lost three cases of malignant fruuncle of the upper lip in spite of ver extensive inci ion. In one case ligation of the jugular years was lone in addition. Therefore, a new method of treating, the malignant type of furuncle of the lip was adopted. Met the inci.com is made in the usual way the infected region was tightly in fittrated with the patient is blood. This treatment was given in five cases of furuncle of the upper lip showing, a tendency to progress and a sociated with aid and if the self parts especially the eyelds but which could not be regarded as malignant because the general serious a peet high fever chilf awomating of the malignant type were aboven in every instance the infection was arrested by the blood of fense. The inflictanted blood remained in





SURGERY OF THE HEAD AND NECK

EYE

Van der Hoeve J The Relations Between the Eye and Ear 4 Ot 1 Rh 1 & L ry 1gol 1923

Van der Hoere call attention to some of the less well known conditions of the eya and ear. The syndrome of blue sclerotics consist of blue sclerotics bones fracturing easily without great traumand deafnes. There is a definite relationship between degeteration of the return and congenital deafness. In congenitally deaf and dumb animals there may be pigment degeteration on unlike that of returnity pigments a or chonoretunity.

A case seen by the author suggests that there is some relationship between the tumor misses of Reclinghau en s'disease and tuberose selectors. Yet may be a considered to the consideration of the consideration of the consideration of the consideration of the useal by gment sensitizing the laby must pigment Ear conditions whe chause eye di ease are throm bosis of the cavernous sinu paralysis of the abducens nerve in outsi med a mod firefuture.

In conclusion Van dr H ve discus es the relation hip of the eye and vestibular organ

VIRCIL'N STOOTT NI D

Bell G II Furthe Ob ervations on a New Method of Pretenting Postoperative Intra Ocular Infect ons A Report of 1 250 Success ful Cases 4 h Opith 9 3 1 436

On the bas of twenty years experience and 1 50 cases without a single primary infection or a case of panophithalmitis. Bell recommends a prelimin 13 indectomy in every case of catara t. His technique is as follow.

1 Focal infections such as oral seps s diseased tonsils and toxemias of the intestinal tract or₀ in arc vercome two or three months preceding the operation. Then if the eve appears clinically clean the operation is performed r gar lless of the bac teriolog cal findings.

2 Twenty four hour before the operation a dose of castor oil; gren to cleanse the intestimal tract 3. To obours before the oper tion a smear of the conjunctival saces taken and two drops of a precursioution of silver intrine are instilled into each eye. On the operating table the brow eyelids and any agreement skin er washed with castle soan and the resulted from the conjunction of the c

eyes washe I out with normal salt solution
4 During the operation sterile rubber gloves are
worn by the surgeon assistants and a conjunctival
flap is formed

After the operation two dops of a 3 per cent solution of atropine and a 25 per cent solution of argyrolis used and both eyes are bandaged for forty what hours Thereafter the eyes dressed and argy rol and atrop ne are instilled every two days

6 In doubtful c ses silver nitrate is instilled in the eyes five hours and two hours before the operation MANFORD R WALTE M D

McLean W My Experiences in Working with Dr Barraquer in Barcelona Arci Ophih 1923 11

Mere describing Barraquer's technique the author states that the phaceeris method is less apt to be followed by complications than the Smith Indian capsulotomy methods of extraction and that while it requires great of territy it is no more difficult than the expression method

According to Gallemaerts of Brussel the Batra quer extraction does away with the pressure on the streous body which is so severe in the Smith operation. The results are a black pupil excellent vision and above all absence of irritation and secondary critarict.

Burraquer examines each care carefully before operation Thomas D LLEN M.D.

TAT

Lyons H R Otitis Media Complicating Opera tions on the Gasserian Ganglion in Otol Rh nol & Lo y g l 19 3 x 1 457

Otitis me lia complicating operations on the gas serian ganglion was first observed in the Mayo Clinic about three years ago This observation was made following section of the sensory root of the trigeminal nerve and all o following the injection of alcohol into this root. The symptoms are (1) a sense of fullne s in the ear on the side on which the injection was given or the operation performed (2) deafness and (3) otalgia. The otalgia is not an important com plaint but is frequently present Framination of the affected ear discloses a fullness in the inferior quad rants of the tympanic membrane with more or les obliteration of the common landmarks usually a fluid level and above this a bubbling sound is heard on inflation of the eustachian tube tympanic membrane is pale rather than intensely red as in ca es of suppurative otitis media Deaf ness a determined with tuning forks as of the con duction type and mild The postero superior wall of the external canal does not droop

Minute detail are given concerning the nervous anatomy of the middle car and its association with tracts from the sensory root of the gasserian gan glion. Such connections are very abundant

Three cases of secretory othit media following section of the sensory root of the gaserian ganglion for trifactal neuralgua are reported. In each case, the tympanic membranes were slightly full in the inferor quadrants and pale: a definite finil level was present and a bubbling sound was noted on custa than tube inflation. All of the patients complained of sight defaries. These symptoms always occur in the ear on the side on which the operation was performed. Otalign a sa not a prominent symptom in any case although in one there was moderate pain.

In the of the cases paracentesis was not necessary and the patient recovered rapidly. In the third case paracentesis was done on account of the amount of fluid p esent but the open ng rapidly healed. In non case did permanent deafness result In a fourther state the condition occurred after the patient had been dismissed from the Clin c and the observation we verified though the pat in a home phasician. In this instance if ere was spontaneous r plure of the tympan c membrane in slight secondary infection in the middle ear. In addition a corneal uteer de velored in the son thess! In while the operation was performed.

Dive cas r or triports I in detal becaus the ca cond ti del ped feet the prittent had return el hom the pat it as a under ol servation for only a also it we. In none of the e cuses there is a cond it no develop d. I requently corn al uter fol loving a gaseria n ganglion operation is thought to 1 pa tially or wh. live the tripolity of the case is considered to the tripolity of tripolity of the tripoli

ng from t on of the s nsory root.
The auth r s conclu ons are summanz al briefly

as folio ys

the fact ry stitt media following oper ton on the gasse an ganghon is an entity. It is due probally to the philitude of the mucous membrn fithe middlear

2 The ner n e tions between the g erian g ngion and th mucous membrine of the middle ear re abundant

3 The ea and vec mpl cation always o cur on the n which the oper tion is performed 4 Trauma 1 Im nated san et logi fact ro

far a the is conce ned. This further ste gth n the argument that the corner complicate as are e tir ly triphic in o gin

5 Th p ocess may be smilar to that occ ring n herpes zo te titi us II R Lvo s M D

NOSE

Petridi A A Ca of Rhin phym (t b phym) Ly / 93 5

The pitient w s a man 32 years old Six years before he nsult d the uthor a tumor began to devel p on the end f his nose enla ged stead ly and o ca on lly fled and suppurated The e s nop o fe r Phy lexamination negative

ept to the local gr th A blood Was ermann test al neg t e

The tumor was composed of rv bobule. The large med n pr t n h dtm! bul and on each sole it h be of the la na i was a small lobule. The tot! h in z tal measurement was 6 cm! In con tencry th gr with was soft sp ngy nd vel ct). Its surf e sh ed numerous me to of s bacco s glands. Pe u e c u d but; nc hie e t cou material to guish from the open ngs. The nit if bul r gro s catained seb ceous se retto nd puss Thet m cert indeed to then i had lift in the properties.

but not onto the mucous I nin, of the nares. The

Operation was done by Ollier's method as modified by Morest a Each lobe was removed separately a portion of the deeper b d of the tumor being left in order not to injure the nasal supporting structure The tissues bled yers freely The wound cicatrized by granul tion in twenty two days without complication 5kin gr fting was unnecessary Two subs qu nt pla tic operations were done to correct small arregularates on the surf ce and to remove a cuneiform wedge ir in between the lavers of the greatly thicken d nasal septum to form a normal nasal septum. After each oper ton the vound cicatrized re dly and after the last operat on epi d rmightion was complete in about one and one half m nth Six months after the patient was d charged the r sult was perfect from the aesthet c point of view

On pubbologic examination the tumor was found to be hits firm and home encou and to encot eseveral small cristics containing creamy put to consist do's hitself prossist where from the flowest user chain to form dess is and sebaceous glun is which were g exit is alted and hypertrophied and surrounded by a done infiltrated by lymph cytes. I few gaint cell surround d by eight loud cell inhout ca. atom were found in the lymphitic centers. The anatomical demonstrates his physical contents are supported by the property of the contents of the

WALTER C BURKET MD

W rms G and Ch umet G Radiography of the Sinu es of the lac (La d phu des t d l f c) 4 h lor t d l y g l 1923 x 385

The authors describe the different \times ray procedures used fo the study of th s nue es empt is in, tho e which experience showed to lith bis and id cass the interject to not of the roand the typ giph of the sinus side termined from roentiering hams of n mal and p by logical subjects and permensing cted into op que material

The different views u d are as foll s

Th antero-poste for 3 ith the forehead d nose on the plate and the norm I ay in the g ttal plan of the head perpend ular t the plate at th le el of the ethmoid Th oc ijut i o the I late only when it is imp bl t m e th f tient (brain abscess or extrem dy pnoca) r the Vrav pp atus The ph n d and thmoid nuses ar sho n best heath rm lr s falls a th gl bella normally on the plt. The maxillary thus hown with the higher dand the meltay alog aln jann, the glabilla dethe audit venual o ith the hid unft dand the tub displa dig em l er than the e t rnal occip t l prot be a e fo outly the fintal signs that bous displaced for ard room above the extension to the coupt lips tu br ce at an nchnatio I to d gr s to thr entral ry n th gl bells A toop to sor vi ws n of th symm t of th right p rm t comp d left des

2 The profile or lateral view. This is obtained with the sagittal plane of the head parallel with the plate the normal ray being in the middle of a line from the external auditory canal to the outer angle of the eye for delineation of the sphenoid sinus and slightly forward to show the ethmoid and frontal

Oblique views following an axis from the pari etal fossa of one side to the orbit of the other were taken symmetrically right and left the patient's head resting on the orbital ar h the nose and the malar bone. The e do not offer notable advantages over tace and profile vievs

Intrabuccul films for delineation of the ethmoid and sphenoid sinu es The chin i on the table and the tube i placed above the top of head This method is unplea ant to the patient makes the use of re enforcement screens difficult and gives only fragmentary views of the sinuses

5 Stereographs of the face and profile views These show the general configuration an I depth of the sinuses and the exact location of foreign bodies They are of less value for the diagnosis of

s nusitis 6 The vertical view of Hirtz or a roentgenogram of the base of the skull either in the anterior view -vertex chin plate-or the posterior view-chin vertex plate. The head is in maximum extension in order to avoid projection of the cervical vertebræ For the anterior view the patient is in ventral posi-tion with the chin extended on the casette and cushion The normal ray 1 parallel with the vertex and the external and tory canal A clear view of the frontal sinus i obtained with the head deflected so that the normal ray falls I or 2 cm behind the root of the nose. In the posterior rew the patient is on his back with hi shoulders lifted by cushions to permit extension of the head and the normal ray falls on the base of the chin following a plane pass. ing through the ti o mandibular angles and parallel with the external auditory canal and the vertex

The authors describe in minute detail with illu tration the roentgenograms of the valious sinuses in each view

An antero posterior face plate does not differ entiate a lesion of the ethmoid sinus from a le ion of the sphenoid sinus Localization requires a face and lateral film A profile view does not differentiate the right and left maxillary sinuses or the right and left ethmoid cells. In the authors opinion the vertical view of Hirtz will gradually supplant the profile view When the number of views mu t be limited for economy the frontal and ve tical views will usually be sufficient for diagnosis. The vertical view reveals an orbital prolongation of the frontal

The I ray shows the exact topography form and dimensions of the sinuses and will reveal also any anomalies and pathologic lesions. It has demon strated that polysimusitis is the rule and monosinu sitis the exception that ethmoid sphenoidal reac tions frequently accompany frontal and maxillary

sinusitis and that ethmoiditis is usually secondary to frontal or maxillary sinusitis Roentgenography is of the greatest value for the exploration of the posterior sinuses in which other procedures are limited These sinuses should be investigated in all cases of retrobulbar neuritis ocular palsy neuritis of the ophthalmic branch of the trigeminal nerve and persistent cephalitis

After the apparent healing of a sinusitis the pri mary shadows persist for a long time and occasional

ly are permanent

In all of the author's cases in which the local symptoms suggested sinusitis the roentgen ray re vealed the presence of this condition and operation confirmed the roentgen diagnosis

WALTER C BURKET M D

Arbuckle M F Systemic Manifestations of Sup purative Disease in the Paranasal Sinuses Am M Ass 1923 lt 1 741

Arbuckle reports his observations in nine cases in which certain con titutional disorders were caused apparently by suppurative disease in the paranasal sinuses. He concludes that the sinuses become developed and may become diseased much earlier than is generally assumed also that the relation of sinus disease to constitutional disease is of far greater importance and more common than is gen OTTO M ROTT MD crally believed

MOUTH

Hirschfeld I Vincent's Infection of the Mouth

The outstanding feature of this article is the dis cussion of the differential diagnosis brief descriptions being given of the clinical symptoms of pyor rhœa mercurial stomatiti apthous stomatitis tuberculous and syphilitic lesions of the mouth and pemphigus as vell as the points of differentiation between these diseases and Vincent's infection

The mouth lesions in \incent s infection are ulcer ation and sloughing of the marginal gingivæ with the formation of a grayish membrane which i easily uped off Removal of the membrane leaves a raw bleeding surface Foetid breath malaise increa ed salivation and mental depression are associated with the dis ase

The bacterial findings (Vincent's bacilli and spirillæ) are not sufficient evid e for a diagnosis as the same organisms were fo nd in the mouths of fifty one of seventy five patients select I at ran dom

Great care should be taken to cure the disease entirely as a subacute or chromic Vincent's infection may persist the organisms being protected about malposed teeth and under loose gum margins

In the treatment the author applies neosalvarsan locally and prescribes a sodium perborate mouth wash

Several case histories are reported

CHARLES W F EEMAN DDS

THROAT

Sonn n chein R Alc h I Inject on as a P ssible
Adjunct to Tons II ctomy under Local Arres
th ia A Oloi Rh I & L y g 19 3

х ц 827

In the author sepinion local aniseth are sprefer able to general anisthes a for toosillectomy as at causes 1 so anusea communing and timm due just operative di comfort. The lidition of alcohol to the anisthetic fluid decreas the toru ity syncopy discomfort, and postoperate e ble ding

Sonner then he suid arous concentrating to ficholobut four dith throm 30 to 50 per cent as but so the ago left ct that a mark dreat the substitution specified by mun, about 2 d find or per nat slutton of aposthesia the drift specified so address like the substitution of a per cent also had a find the tand a find so or per national substitution to the cut of per cent and the substitution of the substitut

Wouth edr pot the soltion in ining all obloging in injected in e had just later alt the last upper moir tooth and just and into this storing of the had by lite From it to it argeted into the colfrisse extinct hat a later level of the junt unit of the later level of the junt unit of the later level of the junt unit of the later level of the junt time of the tool lands stors seven drys cinj cted on a lex livit the be of the tool!

The diad ntages of the nethol r that the pun immediat 1 follo 1 g the my ction is more acute follo ing the use of the loch isolution than h nonly spo thesin u d d the essalwa s poss bits of impairment it himothist of the soft

palate due to bl king f the m tor nerve

II rkn ss G F nd R ck J E Postoperati e Comfort in Ton il C ses J I St I I Sa

0 3 33

Ha kness and Ro k r port upon the replies recei d to a quest on e on ernin th meth ls u ed to a erc me the i mfort f llo ing t nsillec

- u ed to o ere me the i mfort f llo ing t usillec tomy. Their n lu ion ar ! Pain s the chief p blem afte this op tion 2 There; t eme div sity f op n on in regard
- 3 It i gene ally agreed that the postope at pain will be colder bis 1-ss if car is taken not t injure the pillar during the oper to n

to tsrlef

- 4 Some u geons gie 3 kgr f m phe a d 1/15 og r of attop n one h lf h ur before the oper to W thin th first thr hou after the pat ent etu ns from the oper tin room the morphine i repetted L ter tis ag i repeated th dose then being / or / g hi e collar; worn mo t of the first twenty fou hou s
- 5 Bef e nd oft n betwen meals a g gle of 24 gr faprin in 4 oz frater given and the p tint i ur, d to s all wome of the sit on

- 6 The emissisp ns on method is used to pull up on the angles of the jaws during eating and drinking and the patient is urged to take a consid rable quant to of flu d
- 7 Orthoform anysthesin and various other powd rs have not be a found a tisfactory
- 8 Alk line g gles and irrigations preferably hot are used three times fully. The authors report that s vabbing of the fossæ with
- castor oil or I qu'd petrolatum and gargling with aspirin lutio have a soothing effect
 Orro V Rort VD

Dai E D D Cytsoftle Larynx J La 10 & Ot I to 3 473

Days reports three very sim lar cases of cyst of the larant one from his o practice and to from the practice of Trotter. The cy is vere pale as i smooth III lit onfice of the I nax and caused dysp oa and studor. They are eappirently above the corl and vol ci the arytenove plottidean III and ventrel or epiglott. They comil tely d sappe re I she punctured but recutr. In a fe

ks
The author's pitient ded of asphyxa. In the
two other cases the cysts wer remo e lat operation
in ever, case the cysts wer even will be the large
but communicat. It is it it through the thir othy of
membrane. There was oconnection in the vetical of the laring. The thin lung all mucous
membrare covered the internal projection of the
cyst in digital through the cyst in digital controls.

L aminat on of the specimens sho ed them to be simple mucous or retention cysts. There as nothing to in licate that they vere dermoils or of cong nit lorigin. Marone R Wattz MD

Bigg H H Tube culosi of th Larynx S th

Livings I tube culo si a frequent complexion of pulmons i ubi culos. Il it crea est the most it is a dalla pain to an other se pui les di case Briggs cull attention t the fet that the e is a rati nail tritiment for echatage of larying all tuber culos as I thi, turn my be possible at any stage rules of the results of the control of the culos and the culos and the culos as the culo

NECK

Gobbi L Congenital Cv t of th Neck (C t b t
llo t d d ll 1 1 1 t d l ll) P l l
R m 19 3 xx h 37

The ca e r p ted by Gobbi wa that of a man aged 22 cars. The pre operative diagnos was congent at less to fit median thyroid region probably of thyroglossal origi. On hi t log c examination the cyst v as found to be a dermoid co t ining highlate tissue in its wills.

SURGERY OF THE HEAD AND NECK

In the literature Gobbi has been able to find only two other cases of dermo lymphogenous cysts of the neck one in the left lateral region and the other in the suprahyoid region WA BREWAY

Orator V New Points of View in the Evaluation of the Pharmacodynam c Test of Function Al oa Contribution on the Goetsch Adrenalin Test (Neue Geschtspunkte in der Be Leitlurg der pharm kodyn m.ch. n. Fu kt. nsp. u sing. Zug. lech n. Bet et gaur Trage ler Ep neph. prob. Go ts. h). Witt a. d. G. geb. d. M.d. i. Cl. 9.3. V.1. 450

Among satty pharmacodynamically extinued cases of gotter there were only 16 per cent with a vagotonic or simprithicotonic predsposition. Most of them reacted to adrenalin and pilocarpin in the same war. Nearly all of the cases of dfu e gotter reacted stron by whereas those of nodular gotter reacted stron by whereas those of nodular gotter reacted strong the strong the contraction to adrenulin. After operations that the contraction of the contract

Boothby W. M. and S. nd ford. I. The Total and th. N trogenou. Metabol sm. in Exophthalmic Golter. J. A. M. 1. 923 ltx. 95

The ev dence here presented indicates that there is no measurable increa en in the endogenous protein metabolism in exophitalime gotter. Therefore this cannot be the cause of the increa en the ba al metabolism. The cell consume at an accelerated rate whatever type of food is brought them but in none of the authors experiments was there evid ne to indicate that any of the three food substance fats carbohy drates or potens is burned in a qualitatively abnormal manner.

As in the normal subject, the body, so in stores of the e-substances are d awn upon only, to meet defined the substances are door intake. However unle is the daily cancers in food intake. However unle is the daily cancer a weaken requirement in surplied by a la ge food in take a loss of veight and general weaken ing with decrea ed re istance result more rapidly and in more intense form than in und ri unshed normal subjects.

It is the auth as even water that patients ith exophthalme guter who are that patients ith greater operative risks than those his day and the second production of the seco

He m n H Exophth Imic Golter in Childhood with Some Unusual Manifestations im J D s Ck ld 9 3 x 1 2 6

The author reports three cases of exophthalmic gotter in children aged 4 5 and 7 years respectively During the first year of life the condition is very rate 'remales are affected more often than males Heiman's three patients were gigs. The range of

the pulse rate was from 100 to 110 in the first case from 120 to 120 in the second and from 160 to 180 in the third Exophthalmos is usually less marked in children than in adults but in the three cases reported it bore a direct relationship to the severity of the condition Enlargement of the thy roid an increa e in the basal metabolic rate and hyperh dross were noted in every cae. In two there was a fine tremor of the hands Blood counts did not show the hymphocy tossi often found in adults

The treatment suggested is strict physical and pychical rest for six to ten weeks and if no improve ment results the use of the roentgen ray. If the roentgen ray also fail thyroidectomy should be jet formed.

ARTING L. SIREFFLER M. D.

Walton A J The Surgery of the Thyroid Gland I Adenomata—Colloid Goiter II Exophthal mic Goiter La cet 1923 cev 53 267

In a person of cancer age an adenoma is potentially malignant though it may be still contained entirely ithin its capsule Walton gives the indications for surgical interference as follows

1 Failure of medical measures to give relief 2 A steady increase in size with resulting deformity especially if the timor has been present for many years the patient 1 over 35 years of age and there is the slightest evidence of torue symptoms. These adenomats abouil not be operated upon during pregnancy unless there is very severe dyspincer from pressure.

3 The presence of dyspinga Thi 1 the chief indication for operative interference. The cause is probably hamorrhage into the tumor or a rapidly growing retrosternal goiter.

4 S) mptoms of pressure on the recurrent lary n geal ner e the blood vessels or the ecophagus 5 I am This is sometimes an indication of car cinomatou change

6 Hyperthyroidism Enucleation of the adeno mais indicated hen it is small and resection when it i large

In the colloid type of gotter the hereditary factor i more marked than in adenoma. Mout 80 per cent of such gotters occur in females and their highest incidence i beginned to be used to b

The etological factor of exophthalmic goiter is thought to be prolonged mental stress shock or worr. This cond tion occurs much more frequently in a tomen than in men. The three views supported today are that the symptoms are due to hyperthy roddism dysthyroidism or a pluriglandular dis

to bance. Surgical treatment is based on the theory of hyperthy rotions. The symptoms of the disease are manifold. As a rule the tilt of a is enlarged and exophthalmos is present. Expiritable is one of or cred. Tachicard is all also present and offent he pulse is sever irregular. The shin and its appendixes sho changes such as 3 v.c. ing and pigmentation. Norvous symptoms are always press int to some degree capet ally tremot of the hagers and tongue at the capetal state. The same are the same and the same are the same a

The author g es patients with evophthalme gutern d'e Learfe or the fis is six months of the disease studying the puls the temperature and the case studying the puls the temperature and the nation rate. When the symptoms are minimal he op it less Illis experience with Nray treatment has been ery unsait safectory. To lessen the totarmia bef e operation la ge saline injections may be administered Ether is the name thetic of choice. On the d v of operation 1 ty five minimals before the patient i sent to the operating room 3 oz each of either d olive oil are injected per rectum. This inject on decrea es the amount of either that must be given through the op a mask to complete the patient conductor. Y preliminary ligation is die in case is vith severe t xemia but as a rule primary fies con is necessary.

ARTICR L SUREFFLER M D

Ju t E The Postoperati Temperatu e Folloving Strumectomy (D po t pe ti T mp tu na h Strum kt m) If ti d G engb d M d Cl 923 38

The olloid strums the expression of inhibited draining contain an abundance of valuable thy

road secretion It underates an organism with active internal scretory pressures. Pollowing partial resection the circulation of the gland is increased and the organism responds with a change in its total metabolism. The traums of the operation causes a breaking do no if proteins which excites the terfever causes a more rapil decomposition of the remaining colloid which restores the internal secero-quilibrium. Fever of unknown cause may perhaps be explained in this way. Auxent (2)

Faini G M Malign at Adenoma of the Prathyroid (1d oma mign dillap trod)
Ahildh oga 42

To the fen recorded cases of malgnant tumors of the parathyroids Fasann adds the case of a woman of 63 years who presented an old gotter on the right side and a tumelaction the size of an adult 5 fist on the left side of the neck. The litter had recently grown very rapidly suggesting main nancy. The patient their downs the one ation.

The tumor in the left lobe of the thyroid was found to be invaded by norphastic ussue which had penetrated into the cav tres of the follicles developed in nodes of considerable size and spread to the sur round ng tissues. The tissue of th neoplesm showed the histologic structure of part thyr of the sur Fass and regarded it as a malignant adenoma of the parathyroid because in spite of the evidences of period to the surface of malignant parathy for dimens and surface of malignant parathy for dimension of surface of the surface

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Bagley C. Jr Frien ive Hæmorrhagic Listra vasation from the Ven us distent of Galen with Clinical Syndrome A Report of Three I tal Cares with Two Necropsies 1 th Surg 1921. 2217

Bagley d sember the e cas's of traumatic brain lesion having the same clinical course sharp rise in the temperature amounting to nearly 3 legrees a few minut s after the accident in Case 2 an I to 5 5 degrees ten hours after the accident in tase I marked the beginning of a hyperparexia which continue I throughout the illness and gradu ally more solt from 106 to 107 degrees I in all ca es at the time of I ath The re piratory and Jul e rates sere greatly el sate ? In Case 2 the pule r te was 120 and the respirations 56 a few hours after the accident. Before the end of twenty f ur hours after the patient came under the author s of servation the pulle rate was 160 and sub equently r nge lbet cen 125 and 1 o The re piratory rate I ring the entire illness ranged between 26 and 62 per minute

In all cases muscle poser as affected to a greater or less 1 grees and the 1 ep rich are were increased. The disturbances were chiefly of the pastic type. In Cast 1 sof power on the sile pred ministed. In all of the crest he jupillary reactions were disturbed and there as I loo I in the cretchey pinal fluid.

Whin a small opening was made in the temporal region in Ca e r tle intricannal ten ion was found to be keithan normal in fact the Irain seemed to be almost shriveled and was very easily compressed by the structure.

In Case 2 the sentri le was aspirated through a lurr opening over the oc initial pile. Y space of at least 1 cm between the lura and the cortex of the fr in in licited that the intracramial pre-sure was with rimit.

The 11th log findings in the two cases which carrie to ne it is justify the conclus on that the valloume was last upon a sefinite morbid tat whe most inchange water disorder) irrited to the structures and micelly rist of the vallous form in this tributes and micelly rist of the vallous disorders and micelly rist of the structures and micelly rist of the upon the structures and the contract of the upon the structure and the contract of the middle structure to the contract of the contract of the upon the structure that the contract of the

Marchand L and Adam F Fatal Status Fri lepticus in a Woman with a Golter Who Was Subjected to Obphorect mv Ilyophyseal Harmorrhage (flat d mal i phyage m teldor une femm g treu freemm at o i thore billioner me d Ilyopoly) I II d mem S c mild 4 by de P 1923 33 xx xx 1058

A noman aged 6g developed hypothondriacal symptoms persistent uterine hamorrhage and hypertrophy of the thyroid glund shortly after the meropause. In an attempt to reduce the hamorrhage and mental symptoms the uterus and owners were removed. Three months litter the ptin til egan to have epil pitform seizures and eventurilly died in status epil pittor.

Autopsy revealed arteriosclerotic changes in the cerebrain extravasation of blood in the pri mater and changes in the cell of the cerebraic cortex. The thyroid gland showed subsecte thyroiditis and the hypophysis a recent hemorrhage in the anterior lobe.

LOAL L. DAVIS M.D.

Scott S. Left Tempore nhenoldal Abscess Mine shall r Names of Object. Cerebellar Abscess Sudden Coms and Apnæs. Recovery after Operation During Artificial Respiration. Cerebellar Abscess Fise Weeks After the Omset of Acute Ottil Media in the Right Side. I oc. Asp. Soc. M. 6 Jun. 1, 3 x 1 × x 1 0.1 53.

CAFE The patient was a so-ver old gut with deafness of the left ear of it to years duration. In otorrhea win h had been present previou ly cessel for eight months after the removal of the ton his an! adenoids but then recurred ith pain in the left ear and convulsions involving the inpit adeol the body. On the patient's admission to the hospital her temperature was not 6 degrees? and her pulse of the left external auditors, meaturs contained pus and the six the left enterstof in was 3 lightly tender kne gets were untol tainable the superficial abdominal reflexes on the right side were weak and there was amnessa for the names of olyects. Herdische was absent

A mastoid operation received puss and choles teatoma in the antitum an extradural alloce is to the mid-like craimfiles as these mas betteen the dara and pia arachmoid extending to the lateral surface of the temps roughenoidal lobe and at ence of pulsation of the dura. No pus drained from an inci-on into the cortex.

Meet the operation the patient's condition did not clear up and she experienced sever latitacks of vorticity. There with a late at a second operation a brain all cess was found just unly the adherent did to This was incleid and drained with a rubber tube. Thitteen months later the prestus was site.

nosed an l a postauricular sinus was pre ent but the chil I was well

(15F 2 Th patient a 1 year-old by with severe halache chrora otorrhea and clear cere tro tip I fluit and r press e became from s an I then une crous During a mat 1 operation th treatling at piel lef re th antrum had been open 1 Un! rartifetal respiration the dura of the mill and posters of ar avery we land be au thin serest rin the post rar from th

liras steri et the mills nu wasopened The r bellum pr lar ed fr ly On the escape of 20 f pu fr n a larg or bell r aloces respiration a r umel r nt neou ly but artif i brestitation wa m intained frame tin Miter tw L of in the rate at begin t rec tlutsh w le re

ny taumu t warl th if of the less m g sh g s nl gn fliml flints south a ! of the less n The n nth ltrh litthelogt lap r nth cli

Care Thera with the verrollt without other and fless fith night ear which i sh wn ir waines fo o week nihalhalse er l att kel min Whinher s raminelt th auth the temperatur was of I gree I a 1h pul to There w to tagmu to the right with I its t the right in t intig with the right

Ope at n re c ! I a very sm !! extra lural at n the m lil ith in Ising anla er bell rabs es c nt ming z of pu Tube ira g was u el At the time of the r pert the

I that asprogrange fax rally

The uther retrett these cases to how the parativel sent land vil eft lagron al e nith frituit us ir um t nces on which re ers I pen i He ment al some re ent ft1 I ling two fe rel ll ral ces es in wh h mening t d I pel In one ca e of t mg roth nort lab cess hich lign wed and Irain I within the e wels I the on et of a ut otiti m lia a l la p ling terminal ordem fith trin let liped when the gitt nt wa sparntl r co e ng Aut ps in the i t n e howed th t the bsc s h I be n fleintly I n I a I th t there wa m n ngitis or tr ntricular eff i n The celema was a life fem falective no thaliti i v ling the lift cer I ral l mispher u (Bux

I el ton W P Intradural Sure rv in It R I tion to Abs e of th Brain i e 11 11 will 9313

In cases funfe ton f the ear br nabsces m result fr m direct sten n of the infecti through the lura or f om r trogra le th mb phi titis of

c rebral v 1

In th first tance the ab es is al ass con t guo to tl area of bony ears s In th second st I within the c bral sul tan e and u ually adj c nt t the rea of primery long in oleme t but the ntern 1 s rf of the dura s not flected th t is there are no alhes irs between the brain and dara such as are four tin cases of the first time

These tw types of aforess are designated t specti el as a la ent sec n'ara abscesinter urr at tertiary aloces In cares of the first type the absects a lincent t the primary focus and th intra furtig th ! s i sec niar to an infected at g thr ugh the lara mater into the abscess In case I the second type it pathological process in carr. I ly the time I could and the aboves followed I was see in lars a spurat a gric sea a one of the larger single situates. Three aboves a are with ut a stilk early in the jath log change fut a tilk na lively from the regrowth outward. In all tin met tatic als esses may ex ut These ene nate fr m 11 st etr am emt lus dit ste tin on of the amilie retril in Africant at case i in the t mg > sgl r ! ! ! be are g rer Il eas h located and en unted I t court of abscesses can

not be so contact hala I ed In the re altreatment fret labsces it ing its thog a firs begund cerely le mpter an bef cope in the lira mater A sufficiently large lin il pimu them let prent inpreso nanit all with tiche ri rate nwithth lea-

an untef limite

the authories at tresporter death ill w igth rem I fab atin rorth acust not an abse n t 1 to pr I me of the medalla alon In a sex sted I tl cem nt o cer tral 1 tanc causes ham rel gest to the pens an imedal

I In the edintracta lite of m loc leed n uha an al nes fart cultily a cer bellat absces th sital centers t d pard away from theme! nin Co se | ntly !! slaves els ate ! the fand t au e fith ir ela te ity ar stretch d It so gr lual gre s ni weur without fam r thg llowe er if th I rais pen daill by ex r I ral her 1 to n occur and the small es sel fith no s nlmeill suil h rupture I mhar run t re in the p es nee of such con I ti ne heth sm ffct

The q steed fring i mixt import at but the k lof ! nag i of les importan e th n the t pe of aloces. In cale faute i tracerel ral alscess 1th ut a psul the heloby tism rls t eva te the b lost c de mage material in st han 1 c is to plac n irritant in the I rain ah halli th e ntinuation of th s pp rati n In a c of brons becess with a pul aneff et sho libe m i n t nly to ! in but also to era!

t the surput that it interest of the absce mult be I nsel Vasel dirubber ti ue will all dring with the tam nt firrita tion. The dur m t be closed tightle only the sm liest pos ibl pen ng being l ft for the drain

The postone to care I uld include frequent ophthalmo fi exami tions blood pressure read ing nl n as s of m s treular r lumbar nuncture and the otra nous administration (hypertonics In lutio Lo LED TS MD

SURGERY OF THE NERVOUS SYSTEM

Weigeldt W Air Inflation in the Diagnosis of Brain and Spinal Cord Diseases (De liedeutung der Luitenblasu g fuer II n und Rueckenmarks dago stik) Fritch d C b d R enig ir Me 10 3 xxx 63

Weigeld reports on sixt five cases in which the Dandy and lingel methods were used. Direct ventricle puncture by the Dandy method is less disagreable to the patient than the inflation of air from the lumbar sac but its dirawbacks are a greater risk more difficulty in filling the ventricles when the lateral ventricles are narrowed or deplaced the increasity for similar particular and the proposed of the property of the proposed of the property of the property

Irontal headache sweating nausa; and vomiting. When the patient is in the supine position the horizontal ray shows the anterior corrus of the lat erd ventricles and when he is placed in the prone position it. I monstrates the posterior corrus. On interior corrus of the lat control esposition is I monstrates the posterior corrus. On the lateral ventricles can be superimpo ed and compared as to sure and shape. Sind evoqueres showed that a sco sure and shape. Sind evoqueres showed that acachined space in from three to Eve hours and from the ventricles in from six to ten hours. In cross of pathologic enlargement larger air quantities often do not disappear in from two to four weeks.

Of importance in localizing a space diminishing process are a relatively small quantity of air in the subtractional space on the time site lisplacement of the longitudinal brain f sure or the septum p l lucidum toward th other side and deformity of the lateral v. httple on the same side.

In the spinal cord total occlusion of the dural sac by tumors—as never demonstrated but luring the air inflation in cases of such graphs this the patient always experince in rollent stabbing pain at the site of the pathologic process—Tonics (2)

Denk W Th Danger of Lumbar Encephalo ar phy in Case of Brain Tumors (t br d (f h d 1 ml le I h l g ph b H n t m) Z Riff (k 9 1 1 47

The author reports a thar lease of death I lloving unbarrent policyriph, that old man 20 series old The condition to be hisproced was the at rized by clocked 48 headaren naussa vomiting tilds rat loudes at the external cetal states in the left which is a few series of the external cetal states in the left which is a series of the external cetal states in the left which is a series of the external cetal states and the posterior centant for a we say peet d

S an attempt to puncture the central for an introd graft has a un use still do a m of final flund were withdra n by lumbur puncture and the flund were withdra n by lumbur puncture and the was in hid a nin quantit es of 4 c cm. The Y raw aboved that the owix end dan of enter the ventrale showed that the owix end dan of enter the ventrale showed that the lumb r punctur the fathent becam apatheter in the control of the contro

Autopsy revealed a softened area of brain sub stance (ghoma) the size of a child s fist in the left temporal lobe and displacement of the lenticular nucleus and the median plane toward the right

The author believes that lumbar puncture is dangerous in cases of brain tumors on account of the reduction in the pr ssure in the lumbar spine which is continued up into the cranial cavit. He attributes his patients death to this procedure and warms against lumbar encephalography in cases showing signs of increased intractantal press ure. In cases without such increased pressure it should be used with caution.

Frenkel 5 The Roentgen Diagnos s of Tumors of the Auditory Nerve (De Roentg adagnose der lusticu tum en) W skou W J 1922 ii 27

Following the suggestion of Henschen the author made's ray exposures of the skull in a signifial direction in four cases of tumor of the auditory nerve and compared the normal and diseased siles. In every instance a dislation of the internal auditory mentu was found. Three of the cases came to automs

I renkel concludes that in every case in which a tumor of the auditor, nerve is suspected it to lateral roentgenograms should be made a these will aid in the diagnost and in the decition as to the type of operation which is most suitable Voy Hoisr (Z)

SPINAL CORD AND ITS COVERINGS

Ja o chy W. Late Injuries to the Spinal Cord in Congenital Scollosis and Their Sugleal Teat ment (U be Spaet chedgu ge des Ruck n m k be ko genit ir Sk lo u d hre operati B h dl R) B i kli C 1973 cr 348

Jaroschy reviews the few reports made to date on spinal cord injuries in scoliosis and di cus es two ca s of his own in Schloffer's clinic The latter vere ca es of cong nital scohosi due to malformation of the fourth dorsal v rtebra v hich at the ages of 17 and 14 years respectively can ed spastic paralysis of the legs with grave impurment of sensibility When the first patient was 18 years old the spinous processe and the arches of the second to fifth dorsal errebræ vere removed the dural sac was opened palpated and clo ed again and the adjoining dorsal nerve roots on the one sid w re severed In the 14 ar of I patient a laminectoms from the first to the sixth dorsal vertebra r sulted in increasing paralysis In a secon I operation the dural sac was opened and could not be closed again. The symptoms of the cross section myelitis in the patient who was ill for nly a short time disappeared almost totally while in the other patient who had been ill for over a year th v became ery much less marked

The true cause of these manifestations of mechan ical pressure could not be determined even by in pection during operation. I os bli faster growth of the pinal cord a compared with that of the bony structure during puberty 1 responsible. Compres

sion of the cord in rlach tie an I stat e scul osis has not I een demon trated. In the d fferents I diagnosis pina bifi la and tul r ulous spon lylitis must te con de ed

A Firly Surkical Treatment of Acut lotlomy liti (li h rgisch Iru ibeh 1 led Plmy li ta) / lili Ci 931 0

The author lelic is that in the early treatment of ut pol m I tis n t enough attenti n has been parlt tl f tth tth 1 cise is very often accom panielly prilm ingit: Theer al amirkel influmnit velma fil spinale relitelf hih ila s an import nt rôle in the ditruction of the an hop il though pesue In la tson mon it night leps ill t save th singl nells ly on oth r | in the pr ure on the meninges an ! c ri

I th I teratur a a i I crib d in which treum f pn lilus I gu he I f rth hen the dura was ned tate Incofth author cae ld boy i th parali is of the left that f o rm e m th it r th a ut illne lan inc t is it gin fil furtlit sixth vertelræ h 1th i the gaths i ten led an i without put in Winit as a latt thurspoon fuls flrifuit pt lhed was hee Int tond i trtur anint enthe an allest e is fflid utlith fluid had frunel was Unfriunatly the ten aspefrm ditor late for ue is fir ult. It hildhe ben perfrme! mm lat l aft r th retr g in of the gen ral sympt ms f par ly 1 the cumulati n of spinil fluit as localiz tat the site of or ration lumbar pun tu e woul! ha el en of no a ail de opens g of the lura v s neces are STREISSLER (/)

De ic Viret and Wert! Ime Be lef Brin ! An Anat mice-Clini al Study of Intra pin I Turnt s (Doc m nts nat mo-l q es r l tunic ts tid () L n h

30 Ne pla ms which may in live the spinal cord at sem tim lunn the luti n mas le cla ife!

according to their origin as foll is I fum r itsi l of the st al column

Spin I of mn tumors (1) s u (2) c t tilagin us 3 Jum r ithin the pual clumn (1) extra

dural (2) : tra lural (3) int amedull ry The study has he had be with only the third class t divide I into the parts viz the int a part pread of tumors of the peripheral nerve and for all

roots the invasion of th v rt bral c | lbv tumors arising fr m thene shbo ing tissues and the anatomi c I complete as of intraspinal tumors

Neu firomata n urosarcom ta nd s milar tun ors at d cuss d un ler the te m polyneu o ma 'Ill su h gr wtl art from a ners bundle and p gr s with ut in oling sur on J g struc tu es Ih i metasta h ve a gr d lect on for ner ous tissue or its coverings. The involvem at within the spinal canal vari s with the durati n of the diease and the mair ance of the turner Polyneuromata may invade the vertel t l canal without causing any appar at neurological symptoms On the other hand such a tumor may have the at pearance of a true intra p nal gro the In invading the vertebral canal it may pa though three st Les a perit h ral stage a rad cular tage n la rinal stage manif stin e ntr lany lyement

Two ca es are cit i to illustrate this invasion of the pinal cord The fr to as a ca lawhich ampu tat on was I ne because of a 1 hocuroma of one upper e tr mity. D the occurred three years lat r from a ginal co 1 tum r Invol 1 g the roots of the I ver cervical and proper dir I strinal filts case 1 cite las an exa aple of invation by metastases Thes con lea emasthat of a pat nt with a tumor of the se enth cervical r of on the right's lea hich e t i le l bi c ntin t an leiu ed e on l ri pressure upon the spinal cord with the formation of syring m el cea ities Il is ere is cte las an e amfle of galunlinear aloganers trunk by eninuty of to ses Both ca es illustrate la rad cular stag the spinal city invitiate I tryphal meta t smay le el ; tha the lura mater or in th an I between the lufur at on of th ant morand I st fi r rost and pun lent of the lura and ros

I ti nies vertel ril t. m. re are cla. Las miligni t and ben gn Am ng the former are fil to- chondroand o te preompta a d my lomaty. The first gr up usu !! levelop in the ! Is of th vertebra and cause I strut n of bone a soc t d with spont neous fr ture and luxate as and eco 1 ry involvement of the spin Lear I mechanically Mile I mata are u u lly milier! an lar very mal invet cat in ta if destructi n of inne Tie mite m m ab man growths ar I pomata ch r from ta and exestises Aca. efexosto sonth it real urf ce of the vertel rat column eru i g am; toms of cord com; re ion is rejote! co lars vert ball tu m rs level [no from e reinema of the brast These c etrue me full y compression and u u lly attack the sp mgs to sue of the ertebral body If e r this may mit statiz about the intra ert 1 If ramina an Igi e ti e to typical rad cular tain lumos f the nedit trium lich in th m | rits of cases are s re mat e mmo ly in ols th v riebral column but tend to remain e tra fural

The spin I anal 1 inv i d by I tructi n of the ve tebræ an i thr u h a chang in the can i lue to d form t ause I by th d'atructio compression m v ! the first sign of vertebr ld ea e The changes in the r fithe jin I can'll my be cause I b I truction of lon with resulting frac ture and d locat on or by exe to-In s me c set the tumor may first in ol e the int r e t bral for min and thus p mar is att & the p nal nerve roots and the bl of an list phases els Agan the ninal cord may be affect 1 by involement of the

meninges either by direct metastases or by thicken ing due to a malignant or infectious process

The complications of intraspinal tumors may be divided into those affecting the meninges the pinal cord and the bone Diffuse sarcomatosis of the meninges is rare. A circumscribed serous meningiti secondary to an inflammatory lesion may simulate a true spinal cord tumor Mechanical compression of the spinal cord due to deformities within the verte bral canal such as fractures dislocations and exostoses 1 common Meningomyelitis may give rise to serious errors in diagnosis Varicosities of the veins microscopic hamorrhages into the cord endarteriti obliterans with softening and subdural cirsoid aneuri m are among the vascular lesion which may ause medullary compression Svringo my elic cavities within the spinal cord substance often accompany sarcoma of the spinal column and have been reported vith I aget s disease. Bony complica tions associated with intraspinal tumors are friabili ty of the bones sponginess and cavity formation LOYAL E DAVIS M D

PERIPHERAL NERVES

Leno mant C and Sénèque J Two Cases of Compression of the Brachial Pletus Due to Hypertrophy of the Transver e Proce ses of the Seventh for slean tertebra (Deut cas d c m pe o du ple us for the par hypert ophe d s pophyse it ras se de la 7 ve t br ce ut) B ll in 1 S c dech de Lee 9 33 u 997

Case of compression of a nerve or blood vessel by a cerv cair bir well known but compression of the brachalpletus due to simple by pertorphy affect that a verse processes of the seventh cervical vertical that a common. The authors have seen seven cases of the latter the pertorphy and the satisfaction of a cervical rib are less common. The authors have seen seven cases of the latter the pertorphy and in this atticle report those of two women aged 23 and in this atticle report those of two women aged 23 and in this atticle report those of two women aged 23 and in this atticle report those of the store that the same through the sa

In the second case the hypertrophy of the trans verse proces es of the seventh ervical was more marked on the right side and the eighth cervical nerve as strain ulated Operation in this case all o was followed by recovery WA A BERNAN.

DeMas ary E and Wal er J A Tumor Probably of Nerve Tissue O igin D vel ping in the Ga t ic Wall (Tum u d g e re p pob ble de t pé d la p gart que glome phe quel B ll t mém S e cd d hôp d p 923 3 84

The authors repo t a case characterized by the clinical picture of advanced secondary animia pain

in the epigastrium hæmatemesis melæna and a regular oval resistant mass slightly tender upon palpation on the right side of the trunk below the umbilicus

Exploratory operation revealed a tumor of the anterior wall of the stomach uthout associated glandular enlargement. Upon microscopic examination the got it was found to be just below the muscularis muco x and to infiltrate the submucosa. Its structure resembled very closely that of tumors an ing from penpheral nerves which were described by Lhermitte and Leroux as peripheral gliomative.

Soederbergh G Investigations of the Innervation of the Abdominal Wall (U tersuchungen neber die N ur I ge der Bauch a d) Zitch f d g ve I u I sych al 923 L vu 206

In the treatment of organic nerve diseases, operable tumors of the spinal cord occupy a particularly important place. Mo t of them lie in the dorsal largion and are by no means always of the type that reveal their level through sensor; root symptoms. Therefore the motor and refler symptoms are of more significance than the sensory. It is extremely sensor that the function of the symptomic secondary, that the function of the state of the symptomic sensor is sufficiently as the symptomic sensor is sufficiently as the symptomic sensor in the symptomic sensor is desired the results of daried estimation of the symptomic sensor is desired to the symptomic sensor in the symptomic sensor is sufficiently sensor in the symptomic sensor in the symptomic sensor is sufficiently sensor in the symptomic sensor in the symptomi

The fifth dorsal nerve takes part in the innerva tion of the first cramal segment of the rectus abdominis The sixth dorsal nerve innervates the first and second segment of the rectus The seventh dorsal nerve influences the rectus above the um bilicus and the upper portion of the external oblique The sixth and seventh dorsal nerves probably govern the upper portion of the transversus The eighth dorsal nerve innervates the rectus above the umbilicus and the muscles of the flank to a little below the level of the umbilicus. The minth dorsal nerve is the chief innervator of the tran versus at the level of the umbilicus and takes part in the innervation of the middle portions of the muscles of the flanks and the rectus below the umbilicus The tenth dorsal nerve innervates the middle por tion of the internal oblique and also takes part in the innervation of the muscles of the flank belov the umbilicu and of the rectus below the umbili cus According to other investigators particularly Dawindenkoff the eleventh dorsal is the chief in

nervator of the rectus b low the umbificus The twelfth dorsal and the first lumbar nerves innervate the rectus below the umbificus and the lower por tions of the muscles of the flanks

In adustion Socderbergh carefully studied the abdominal reflexes in 700 persons. The upper reflexes were never associated with contractions below the level of the tenth rib. In the main, the contractions

correspond d to the function of the seventh d real nerve and the sixth d rank perv as an acces ory Stimulation o curred lowest in when the minth dor al nerve was timulat 1 This reflex the ef r belongs to the rea in from the little or example dorsal nerve to th minth In 6 36 of the 700 ca es the mid dle ab! minal refl x as c nfn 1 to the me or tri m corr pon ling to the motor roots the eighth and ninth ir in ries D p timulat a of the tenth dr lnr in! teithat the! alizati n if the mill refles to les ught in the ight to t nth lo I n t s The lo er ab laminal reflex sas u lls pel riheu. In 97 per ent of th th cetr ction oc urrelled the ly l of th uml th he fly in the area of the tenth to t elfth for al nerve (first lumbar) le s ften in that f the north doral nee The lace reflects loc lize I n the r g: n from the n nth er tenth to t elith direct nerve (fir thunkar?) according to the situate n of the pant of stimulation in the twelfth dor al 1\ KF (7)

SYMPATHETIC NERVES

P pillian \ and Cruces u H The Lffect of Bi lat ral C releal Syn pathectomy upon the

In th ty ritit th auth rs f und that s a p the tomy the de tru tion f the upper cervi al imit! I to ton fthee neligan! their tratm twith a sper nt lution of ot ne d er as I the number of r spiratory mo em nts Is half The the min n persi ted f r from eight t t n days ani a mi in d l's pronounce l tra h o b on lad ounds Int o anim I th sam egion was expo daith ut ampath of my or le f th guigh in orl r to d termine the effe t of trauma n ch ges in the re piratory fre rucocy r ult 1

Following an injection of a lr nalin the rate of the respir to y m vem nts returned to normal be topsy real and ton to hyperem of the brain a c ge ti n f tl tracheo le nchi l tre and the diaphr gm I h auth suga st that the e ngestion may be the c se of the lowing of the re p ration through the stimulation f amoutheti fb rs lading ith th agu nd ph ent n rves t the tronchi and the per t neum

Wiedel pf E periment IRs ch on the lift et the to refer in a narest steer i spong the the to the limbs (i i n m till Utr hg uberd Wikgd trug dipe till n Sympthic that in till Utr hg uberd with gd that in the till n Sympthia that in the till n Sympthia the till n Sympth rug d'i pet n fil Ctil () ldd i hG ii hfCi

The ath rp tseperm nts mad to I ter m ne th cour of the n rves of th pe ipher I blood ess is of the extrem tie. The method u ed was plethy m gr phy wh h sho s ev n minut eac

tions of the se sels through changes in the volume of the ! In d is the hin! foot was pleth smoeraphed Lamiul irritation of the al-dominal slin or the muzzle caused a decreas in volume through contraction of the perit heral vessels, the blood res sure fo a mang const nt Wh n pure arterial sym t il ectoms was done on the femoral aftery neither the volume of the extremity n r the reaction of the ves el showed any chang C b equ at freezing of the science in the caused an incr it in volum and a lum tuls, and complet or almost complete arrest of the rea to n t pain. The latter ceased r cultrly when aft r freezing the femor l n ry wa severe ! Ir z g was f llowed constant! In hyperamin of the had fort. The rults were the same, when the t tacquence war raid

In man the han I was pl thism graphed Nerve con fuction was block I with a tor a per cent no ocaine olution with ut a frenalin Anasthesia of th radial ner e in above the saist caused only a heht increa e in volume 1 11 ing interrupt in of enduction in the uluar or me han not eith rewas a more I tinct increa e in the han I volume th olume rulse grew larger in I th reactions to p in fright an I cold were con iderably I crease | Int r runt on of the firther rues at the same time stonge all e action In the any thetic re n the skin tem perature rose from a to 5 1 g c

I rom these fin logs the auth r c nel 1 s that the perifferal flood s - I nerves of the ! be are loc I lin the m te I nerves apy rouch the blood v s els seem ntalls and do not run cont n u l with the latter to the 1 riphers Ther I re the effect of peri arternal sympath ctomy cannot be cauled by the se crane in resection I the nerves running to th perit hery all ng leth blood se sels. The find ines f the e exp rim nts agre c mil t ly with the established teach go I anatomy and physiology Wiedhory (7)

Bruening F Tie Lat Res its and Lnfavorabl R ults of P rl Art rial Sympathectomy and the Application of TI | Operation to the Treat en nt of Arteriosci otic G ng n (L be D flg 1 M sefl, d pert llr Sympthkt ier be i Frh \ [] ugheil tokitsh Eng 1 4/

I e-e minat n of cases of kennul d case and clered rma theh halleen trate I more than a year previou 1 by persurter al ampathectoms h ed a complete ure in e ry instance In the case of I enauls dease the trophic d turbances a lise ere pink linelentiely and in tho of el rode ma th painful attack of ascular spasm h I never r turned With gar I to both con litions it i justifabl to speak of a p anent cure Wh the pration results unf vo ably its fail re

1 du cheffs to f lts pe ative t chnique The adv nt tra mu t be remo els thoroughly th t n t sue at all remain the smooth mu cular s with th ppeara ce of mother of pearl. Moreover the

ıς

operation must be performed high up on the affected extremity—in the arm where the analysy sites be comes the brachail and in the leg clo e to the groin—and for an extent of to to 1 cm. The results will be unfavorable all of the operation is performed in the absence of proper indications. It is indispatish indicated ho ever in trophic di tert ances following netter injuries when the intritation at the safe of the injury cannot be remo children such as intermittent claudication. Assometion trophic nature or angiops in in the prescleroite stage of arterioscleroiss and in praistent angio positic cond tions.

The most diff cult question to ans er i whether it is indicated in case of threatening or beginning gangrene following atterio clero is and endarteritis obliterans since the progress of these basic conditions cannot be arrested by operative interference Becau e of the hyperamia of the peripheral por tions of the extremities following the operation there seems to be a possibility of preventing threat ening gangtene and even of effecting rapid heal ng in early gangrene but it must be borne in mind that immediately after the operation the nutrition of the tissues is still further reduced by spasm of the art ev and that even though this is transitory it may be sufficient to make manifest a threatening gangrene or to agoravate a gangrene already present In one of the author's cases of beginning gangrene of the foot pen arterial sympath cromy led to a complete cure but it is not known hos long this vill continue

In diabetic and embolic gangrene peri arterial sympathectomy is contra indicate l In very rare instances even a properly carried out

operation is without effect

Dankliopolu D Investigations of Visceral Senibility The Po-biblity of R lie ing Angina P ctor's by Resection of the Posterior Roots or the Corresp nding Sprinal News 8 fee he sur 1 sen bil té us é 1 — po hil té d mél i gie d poin pria écet dat u spoit u u d nri spu ucorr spoit bu u d nri spu ucorr spoit N XXXI 778 m S c méd d hy d P 1933 3 8

In a previous article the author aboved that in attacks of angina pectors the pain could be over come by anaesthetizing the spinal nerves upon the left & die bevond the raint communications. From the sinding be con luded that viscosit pain vis trains mutted it he other viscosit pass bully resides within the vicus itself. He assumed further that resect even the second for the registration of the control of the registration of the resection of the eighther control and fine received in the first of the received and fine of the received and fine and the received for an operation was performed it was demonstrated that this theory was correct and that the second dornal root was of primary immortance.

The author argues that the sensory aortic cardiac fibers pass by way of the rami communicantes which unite the inferior cervical sanglion and the first

thoracic sympathetic ganglion with the eighth cer vical and the first four or five dorsal root ganglia While it is true that some of the sensory cardine fibers ascend in the vagus the majority are probably contained in the cervical sympathetic trunk. After reaching the level of the dorsal root spinal ganglia visceral sensibility is carried by the tracts of general sensition Within the sympathetic trunk sympa thetic eardine necelerator fibers pulmonary vasoconstrictor fibers and coronary vasodilator fibers are intimately associated but at the level of the union of the anterior and po terior pinal roots they parat to form the spinal nerves the centripetal fibers following the posterior roots and the centrifu gil fiber the anterior roots This in substance is the argument in favor of postenor root section In the author's opinion section of the spinal nerves corresponding to the area of pain radiation may pro duce a like result

Cervical sympathectomy by sectioning all of the fbers mentioned may produce severe myocardial diminge to an already poorly nour he l heart interference with cardiac rhythm and pulmonary crotma. Loyal, E Davis M.D.

Bruening The Operative Treatment of Anglo spastic Attacks Lspecially Anglan Pectoris (D per t Beh nilun a grep sit h r Zu staend in 1 sonder Anna 1 cto) 4 1 mml d d t.ek Seell ch f C 1 1923

The beneficial action of pert arterial sympathectomy has been proved repeatedly. Lenche has reported a case in which its results a cre still present after three and one half years and Redner has reported beneficial effects lasting for a year and a half in a case of selectederms of two years duration and a cae of angrospastic gangrene of eight months duration. Tailures are due to faulty technique or the performance of the operation in the absence of indica

The a luntitia of the afferent main afters must be removed with all vasa vasorum for a distance of to cm and from the entire circumference of the vessel The indications for the operation are trophic ulcers angiospastic attacks and arteriosclerosis case of arteriosclerotic gange ne reported by Red ner the operation was followed after a set back for sit days by sudd n improvement and subsequent Recently following Jonnescu's example heal ng Redner has un lertaken to extirpate the plexus in angina pecton In one case treated in this manner the blood pressure fell and the extremely painful attacks ceased Besides the plexus and its ganglia the uppermost pectoral ganghon (stellate ganghon) must be removed

An attempt to cure a case of hypertonia by extirpation of the plerus with peri arterial sympathec tomy on the carotid and vetlebral attents was with out permanent benefit. In another case this treat ment cured the after effects of cacephalitis by improving the blood supply to the brain. Jonnesco T Resection of the Sympathetic for Angina Pect ris (La fection du) mp thiqu d la gne de po tri) P sse mid P r 19 3

se eral ol jections ha e been offered to the proclure of rescring the cervical symptothetic trankin cases of angina pertoris. Briefly these are (1) The reliaces now pervex are destroyed while the Processing of the processing of the processing of the the coronary arteries are destroyed in a condition in high the myocard um is alread, compromised by d turb nec of nutrit on (1) The pulmonary second intentifiers are destroyed with the possibility of poducing pulmonary ceition (4) The substitution of the processing of the protoring the processing of the processing of the further of the processing of the protoring of the protoring

diminished

The author refutes these contentions by stating that the sensory fleers from the central nervous six time to the heart are contained within the vagus nerve they are not concerned with the transmir so force of it he next best and the circulators price use. The role of the sympthetic as a vased lating mechanism of the coronary arters as very luddful In the light of physiological experimentation the distriction of the distriction of the distriction of the pulmonary. Secondificates is of no importance and it has been shown all of that same it is not to the control of the control of the control of the sympthetic with the control of the control of the sympthetic with the control of the control of the control of the control of the sympthetic with the control of the heart after a symmittee to the control of the heart after a symmittee to the control of the heart after a symmittee to the control of the heart after a symmittee to the control of the heart after a symmittee the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the heart after a symmittee that the control of the

The author reviews his own clinical cases and refers to the report of Coffey and Brown to empha size the fact that angina pectors is benefited by cervical sympathectoms. Loyat L Dayis MD

MISCELLANEOUS

Jordana J V. The Cerebrospinal Fluid and Its Relating to the Filmination of Urine (Fluid) to effalorang deo y u rel no n la limina so u n) Ark de med e ug y especial 1933

From a study of twenty one cases of d abetes both ansap lus and mellitus the auth r draws the follow

ing to clusions

I The with Irawal of cerel rospinal flui I in cases
of diabetes insip du nith pinal hypertension causes
a decrease i the quantity of urine el min ted in

twents four hours. This decrease is proportional to the quantity of fluid with frawn.

2 The with frawal of cerebrost and furt in cases

of disbetes mell tu does not cause any qualitative or quant tative changes in the uri e

3 In normal persons and in diabet cs without spinal hypertensi in lumb ir puncture does not cause any in teworthy change.

4 The arterial tens on is in direct ratio to the tension of the errel rospinit fluit and is increased at the moment of puncture bethe reaction to the slight trauma.

W. A. Ber "AN"

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Kusanost J. Tumors of the Vale Breast (Gesch wurd te der rasenni schen Brustdrue e). Kl. n. tach erkops Med. 1911 si

On the basis of three cases observed by himself and a review of the literature the author arrives at

the following conclusions

Tumors of the male breast are rate. In the autop sy maternal of eleven large cities of Russin (totaling arts coo autopaies) carcinoma of the male breast was observed in only five cases. Most of the subjects were elderly men. I tanima is often as define techolog ical factor. Cures are more uncommon than in the female.

Bent n neoplasms in the male breast are more rare than malignant growths. The chinical picture is sim it to that in the female. The most common beingn gror the are tumors of a connective tissue epithelial character such as the adenofibroms which often is due to mastitis.

This article contains the first coll ction of cases made in Russia thirty three in all

BLUMENTHAL (Z)

TRACHEA LUNGS AND PLEURA

Maler O Intrastract cal Tumors of the Thyroid Oland with the Report of a Case Cured by Operation (Uebe intrastice le Schilddrussen ges housist an H nd e oper tw gehelten Fall) Arth f lin Ch 1932 cx 2833

A woman 32 years old who was operated upon in the eighth month of pregnancy for a nodular colloid goiter was ser ed with attacks of increasing dyspama a few weeks after a normal delivery and r entered the hospital for the relief of this condition twenty-one weeks after the first operation Laryn goscopy revealed on the left under the subglottie space a hemispherical protrusion which was covered by very red mucosa and greatly constructed the lumen of the trach a Following a deep tracheotomy and dilatation of the tracheal walls upward a hemi spherical tumor as long and thick as the phalant of a finger was found attached by a broad pedicle to the left trached wall. The mucosa over the tumor was split and the tumor curetted out. The hamorrhage from the bed of the wound was contr lled with the Paquelin cautery and sutures and the truckes was sutu ed above th tracheotomy wound

Recovery follor ed but was delayed by bronchitis and wound infection. When the patient was discharged endoscopic examination showed the tracked and larvax to be free from obstruction.

On microscopic examination the tracheal tumor proved to be a p oliferating adenopapilloms of the

thy roid gland. The primary goiter was not examined microscopically.

In connection with this case Maier discusses the enology symptoms and treatment of intratrucheal gotiers and recues it he herature which has appeared since his comprehensive work on the subject in 1020 MERTERIC (AMERICAL)

Hauke H Thorncoplasty in Tuberculosis of the Lungs (Zur Thornkoplastik bei Lungentuberku 1080) Belv z kin Chv 10 3 ctvix 456

It artificial pneumothorax and thoracoplasty are compared an five upicul trainment of tuberculoss of the lungs thoracoplasty, will be found asser to forcement it is done in two or more stages. By this method the more serious postoperative disturbances used has distitutings of the chest wall and paradoucal breathing are averted. The proc dure of choice is Sauctbruch a pravacetized resection of the ribs from the elevanth to the first by which a satisfactory compression of the thoract cavity is obtained. The functional rest secured is due to the removal of the ribs to the very limit of the costal

angle and to the considerable collapse of the thoracic walf. The narrowing of the thorax produced in this way effects a more uniform compression than pieu wothorax and the lung retraction thus obtained is permanent. These statements are based on opera the results. Schuld.

Naegell T The Surgical Treatment of Bronchiectasis (Die chrurgsch Behndlung der B onch ktas n) Zitch f ar il Fo ib ld 1923 xx 193

The chumnation of the basic diseas which frequently is cong nital or arrays in connection with stenoses shrinking processes of the lung or the salvase of a color and tobacco as a difficult problem. Early operation gives the best results but the early diagnosis and the determination of the location and extent of the disease is otten very difficult. Cases of balterial involvement are generally not suitable for balterial risolvement are generally most unable for balterial risolvement are generally most unable for the first balterial processing the salver process.

The extrapleural operative methods include thoracoplasty and one-molysis and the intrapleural methods include artificial pneumothorax compresaments of the politication and tapeponde ligation of the palmonary artery and jobectomy. Pneumot of the palmonary artery and jobectomy. Pneumot only is only a pallintive procedure which thoughts only is only a pallintive procedure which thoughts broughts fixtula which frequently over behind a broughts fixtula which frequently over the behind a broughts fixtula which frequently over the behind as broughts fixtula which frequently over the behind as broughts fixtula which frequently over the behind as broughts will also generally lost its plability at may be supplemented by pneumolysis but because of the danger of secondary infection the latter should never be complicated by plugging with fator parafin Phrencotomy plays just the same unimportant part in this tre timent as in artificial pneumothorax

Ligation of the pulmon ry artery causes shrinkage of the is use of the lung but has bittle effect on the rigid w II of the b onchial tube. Better compression so obtained by displacem in of the lobe of the lung (6.47%) but this is not always sufficent. The method of Henchen who of sph act the pulmonary lobe between the paralys d disphragm and the lobe of the liver and that of Schepelmann who resolved the disphragm a d brought abdominal organs into the thor ar has been try donly on animals.

Exti pation of the d. eased portion of the lung inch is possible only he in th. desses is limited to one lobe rema as as the only therapy removing the cause. The technique must overcome very great difficulties as the occlusion of the bronchis is not lightime of the pulmonary streng in eating of the pulmonary streng in eating of the second or the doperation. Extruption at a second or the doperation. Extruption remo es also the dan ger of malignant d generation of the lung.

BANGE (Z)

Von Winterf ldt II k. The Roentg nology of Gang n of the Lung (B t g zu Roe tg i g d I g gra) F leh o d G b d R tg (h h g) 3 3

The d el p d lung bscess formed through tis sue de truction is a practically en aps lated caviti G n r no lung tissue a drit; grayish green m s wh hig adually d nt grate into a foul smell flu d Cangenous cavities are fo med by the

ughing up of non encapsulated gangrenous foci The r ll are regular shredd d and ill defined Because of the difference in the pathogenesis of l ng bsces and lung gangrene their roentgen p c tures are different. The abscess is sho n by th \ray s a more or less large round bl dder su round d by pyo enic membrane and with a fluid level h to er the patient spos t on The gangrene ca ity ho s a fluid level with an indistinct air bubble abov it within an irreg lar shado walls of the cav ty are not do tinct. However, the differential diagnosis between abscess and gangrene is seldom possible from the roentgen picture alone In conclus on the author strongly ecommends tr atment with neosal a san Lo us (Z)

ESOPHAGUS AND MEDIASTINUM

Jack on C P rol Endosc py-Ca dlosp m Preventriculosis o Pre entricul Stenosis? J La ; g! & O! l 9 3 xxxvm 43

The author p efers the term preventriculos s to the obs lescent if n t ob olete term ca diosp sm because it has be n shown largely through resophagoscopy that the steposis in the syndrome s not at the cardia The various diseases producing preventriculosis are organ c pasmod c and combined organic and spasmodic

As an organic cause of stenosis Sargoon his reported a congenital valvular condition and some between shave noted exeatrices. According to Pol leston paralysis or continued inhibition of the ego phageal longitud al muscular fibers may interfer with the opening of the carrier sphincter and cruss hip pertrophy. Soils Cohen and McNab mention unbalanced endocromes as a factor.

In the author's opin on the cramp or falure to open is due to the punch cock action of the preerospondageal of aphragmatic structures especially the spincter his prolongations of the crura which is even to the theory of the abdominal esophagian Normally the punch cock action pre-cents recorded leakage of fluid that is swallowed when the heads of war disposition of the coordinated more vation producing the punch cock action might cause presentated as

Mosher believes that the lower resophageal open ing is produced by liver movement imparted by the diaphragmatic and abdominal muscles during respi ration. When the liver is up a momentary narro ing of the esophagus occurs at the upper edge of the When the hver is do n the resophagus is open In cases of preventr culos a there is u ually a element of strictu e at the level of the upper edge of the liver Occasionally Mosher has demon strated by the esophagoscope and \ ray a narrow ing of the entire liver tunnel Stricture has been found in the central part of the tunnel Varrowing s probably secondary to some previous traumatic or inflammat ry process Below the stricture the sub d aphragmatic or ophagus is con dered normal WALTER C BURKET M D

Grégoire R S n Cases of Ph ryngo Œsophageal
Di erticula (S pt c d d erticul ph ryngoph g cn) B li t mé S d ch d P
0 3 x 1 3

Phary 20 coophageal diverticul f rmetly regreted as rate are not being discovered more frequently as the methods of e amination improve. The auth r has so neven case. In this article he reports four cases to of which we e treated surgeally.

The dirticular in r discussion are found at the

p neture of the ces phagus and pharynx in the space between the infer poorder of the constrict pharyng; inferior and the upper bo dee constrict esopharyng; inferior and the upper bo deep of the crockesophageal muscles or ording to kill in between the super or and inferior portions of the cropharynge I muscle

The pr nee of a divert culum; not an absolute a dication for oper tion. Even di erticula of considerable sur may not cause sympt ms. Ho ever cancerous change is not rare a d in the majority of cases op b in necessa; Jo for the relief of discord fit regurgitatio att cks of uffocat and starval n.

The diverticulum is always posterior but often prominent on the side The author refers to previous articles for a description of his operative technique Suture of the esophageal wall he re ards as better than invagination. In the majority of cases a preliminary gastro tomy is unnecessary. For two or three days following the operation the patient is nourished by rectal enemata and glucose infusions He is then given sterilized fluit for a few days and after fourteen days a general diet

In two of the author's case fistulæ re ulted from partial opening of the suture but clo ed in even and twelve days re pectively. In the other cases recovers wa uneventful RUDOLF MARY M D

Vinson P P Carcinoma of the Esophagus Am J V Sc 1923 cl

From Augu t 1 1910 to August 1 1921 154 pl tients vith cancer of the resophingus vere studied in the Mayo Chine All but two vere traced and a erit cal analysis of the group is presented. In the author's opinion cancer of the resophagus 1 mor common than is generally believed

The symptoms depend largely on the stage of the disease. In the early stages there i usually slight dysphagia during the swallowing of solid food As the lesion progresses soft foods and finally liquids become obstructed The food obstruction i progressive without remissions. It usually develops gradually but may begin sud lenly By th time the first symptom appears the disease is well ad vanced Hiccough is an early and not infrequent symptom Regurgitation is common Generally it is voluntary and not delayed as in cardiospasm a rule the esophagus is very little d lated above the stricture There is a continual loss of weight because of the food restriction Pain s a late manifestation It is substernal and may or may not accompany swallo ing

In the series of cases reviewed the average dura tion of symptoms was seven months and the shortest duration three weeks

One hundred and to enty s ven of the patients vere men and twenty seven were women a ratio of about 5 r All but se en vere more than 40 years of age. The youngest was 34 years of 1

The location of the les on varied according to sex In sixteen of the twenty seven somen the le on sas at the introitus whereas in sixty four of the 127 men it was from 7 5 to 37 5 cm from the incisor teeth Twenty one of the patients had metastases eleven of them from a les on at the introitus. The apparently greater tendency for metastasis to occur in cases of lesions of the introitus was probably due to the fact that in such cases the cervical glands were usually involved and the condition therefore more easily recogni ed is the majo ity of the women had a lesion of the introitus th' relative

increase in metastasis in females may be more ap

parent than real

In the recognition of malignant resorbageal disease the history is of the greatest importance. The use of a blunt obve passed by means of a whale bone staff on a previously swallowed silk thread i of the greatest aid. The appearance of pink tinged mucus on the wire spiral used as a guide on the thread when sounds are pas ed through a stricture is almost pathognomonic. The roentgenogram 1 of value in the diagnosis but not infallible esophagoscope is of limited diagnostic aid

H J MOERSCH M D

Sauerbruch T Transpulmonary Exposure of the (Fsophagus (D tran pulmon le Freil gung der Spei erochre) Z albi f Ci 023 1 880

Sauerbruch d scribes a new method of exposing the po terior mediastinum to reach the resophagus which he calls transpulmonary exposure of the mediastinum and opening of the mediastinal cavity This method: indicated v hen the mediastinal cavity i filled with solid adhesions and bands rend ring anatomical orientation difficult or impossible. The hilus and the posterior mediastinal cavity are

approached through the lung

Sauerbruch tried this procedure in a case of perfo ration of an ecsophageal diverticulum into the lower lobe of the right lung I rom the widely opened abscess cavity he worked his way through the lung to the esophagus by stages backward and toward the center of the chest severing and tying all inter vening vessel He gained access to the diverticulum at the level of the fourth thoracic vertebra A slit shaped fstula with white edges m suring 3 by 2 em revealed the perforation into the bronchu and a lmitted a thin probe into the esophagus By the extensive removal of bone the large defect in the lung was then decreased so that at the time this article was a ritten only suture or plastic closure of the fis tula remained to be done BODE (Z)

MISCELLANEOUS

en Torn I A Metl od of Obtaining Wide Access to the Chest Cavity Without Causing Hagen Torn I Access to the thest carry of the Thorns (Ene Secondary Deformity of the Thorns (Ene pe at Methode zum beiten Zufritt in die Bru thoehle hn sekundar D format n le Butk bs) Al is hiskaja W d 1922

In cadavers and clinical cases the author to ind that a skin and muscle flap turned back in the region of two ribs on the anterior wall of the chest vould give satisfactory access to the thoracic cavity 1 ith out resection of the ribs Four cases are reported One was a case of diaphragmatic herma follo ving a gunshot wound and another a gunshot wound of the tight a ricle. In one case the operation was per formed under local anasthesia which the author prefers As a rule the flap was formed with its base at the sternum. This method never caused any deformity of the thorax BLUMENTHAL (Z)

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Caccin V Th Cure of Acute Purulent Diffuse
Peritorits by Intrap itoneal Injections of
Sulphurn Ethe (L gu g ned il pert nute
tapurol t diff sa co
d tre lio 10) Pil R me 19 3 xx s
p t 558

C. ccm reports four cases of acute purulent diffuse pertonnis treated by intrapertoneal injections of ulphun ether. In the first case only one injection as made as the patient died. The second third and fourth p tients were given five, six and three

injections re-pect vely and recovered.

The ether injected no the pentioned cavity in creases the re-stance of the pentioneum favors deep restorative sleep by causing any thesis of the parts dusing fits the pentioneum and the pus and transforms the terrile cudate into an autogenous and speeche serum. Becau eo the rap duty of the cure the tre tm nt is simils to a Bestecks tachy billium. W. A.B. B. NAN.

Huelti H Th Su gical Tre tment of Diffuse
Peritonitis (D hrug: h B h dl ng d
diff n P t mt) Gy8g14 1 923

Every case of diffuse progressive peritonitis should be oper ted upon just a soon as the chagnos s is made the ly exception being pneumococcus pe itonit s and gonococcus pe itonitis. Farly recog nition is of the utmost importance it is less of an error to oper te needlessly upon a case of chronic quiet circumscribed p ritoritis (perimetritis) peri cholecyst tis or pericolitis than to delay operation when it is indi at d The chief problem of treatment is to block off and remove the source of infection Exudate found in the abdominal cavity can be re moved just as successfully by irrigation as by spong ing Th author is an ad o ate of careful drainage The ntestine must not be injued in this procedure and must not be allowed to glide out of the abdomi nal cavity The operat r should follow the motto of Murphy In quickly adout quickly

 great value. The dehydrated organism can be given if id by Murphy Katzenstein proctoclysis. The value of intravenous subne infusion has not been settled up to the present time. Voy Lobange (Z)

Cantalamessa Carboni L. The Question of E terost my in Acute Feritonitis (C t b t alla q estoned llae t ost ma llap nto te cut) Pld Rome 1923 x s pr t 9 6

In the author's case of pentonitis laprotomy ackosed a perforated uiere of the small intestite. The openire was suttred and the abdomnal wound closed without drainage. The pentonitis seemed to have subsided and by the fourth day after the operation there was an about all feel of the operation there was an about all feel of the change for the worse with rapid pulse delium and changes for the worse with rapid pulse delium and cannot see find gu death. There was no autopast

The author questions whether in such cases of acute peritoniti due to a perforated ulcer an en terostomy done at the time of the primary operation m ght not be a life saving measure. In 1911 Krogius re newed 107 cases of enterostomy done as a compl mentary operation to the removal of the cause of the peritonitis. There were thirty six recoveries Recently Delore and Confozier have also recom mended ente ostomy in acute peritoniti after cleansing of the pe itoneum. The causal lesion should be treated first but if this is all that is done the condition is often fatal on account of the v cious circle established between the peritonitis and ileus. The intestine covered a 1th infected peritoneum a para lyzed its c ntents ferment and the lo us become distended Thus the paralysis is aggravated and the peritonitis is maintained by a ptic impregnati n of the serosa and co to of the intestine In the author s opin on enterostomy might prevent such compli W A BREN AN cations

N gel G W The Etiology and Import according Cystico-Buodeno-C tic F id S g G c &

Obt 10 3 xxvv 365

Peritoneal folds are occasionally found extending from the fundus of the gall bladder to the duodenum and transverse colon. The set originate in fetal life are due to persistence of the ventral mesentery caudad to the gall bladder and blied ducts and form

a di ect cont nuistion with the lesser omentum Harras Hamman Homans and others report c ses in which the symptoms led to a diagnos so di chron crholecystist hol lithi so ordu denaluler but operat our v select only abnormal folds, undoubgall bil det to the d decima to trans era colon in most of the cases simple sectioning of the fold resulted in a peramenent cure. The majority of the subjects are middle aged and the complaints are usually long standing indefirite symptoms su h as sour stomach fullness gazeous errectations and epigastire discomfort with dull constant pain and occasional kine like exactivistic s. Cole d scribes the roentgenographic findings in similar cases and calls attention to the fact that they may similare those of gall bladder di ease. Roentgenograms may show a partirily constructed or compressed cap the left superior surface of which has a thin feathered out appearance while the right sides clear cut

Harvey treated the entire subject of peritoneal folds and ligaments at length reviewed the literature and published a table showing the percentage of cases in which a cystocolic ligament has been

found by various investigators

At the Vay o Linuc a ly ament extending from the gall bladder to the duodenum and colon was discovered in eighteen (12 per cent) of 150 consecutive autopases. These included oilly cases in which the ligament extend d at least balf way up the funduis (sixteen cases) or was present as a continuous fold from the lesser omentum across the duodenum to the heapthe festure of the colon (two cases). In structure, and formed a direct continuation of the lesser omentum and formed a direct continuation of the lesser omentum. Infection was deluntely ruled out as at eulological factor by both gross and microscopic examination of the ligaments and modeled organs. Two of the subjects were premature infants of 8 months. Other congentual anomalies were noted in

six cases (33 per cent) In none of the cases could it be said that the fold had given ri e to symptoms. However it is quite conceivable that such structures might produce symptoms Undoubtedly they have a practical bearing in their relationship to neighboring patho logic processes. In the presence of infection or disease in a nearby organ they thicken and shorten and then may be considered identical with true inflammatory adhesions so far as the production of symptoms and their surfical relief is concerned Not only are they potential adhesions thems lyes but they furnish a guide for the formation of true adhe sions and their presence explains why such dense adhes one between the gall bladder and gut are some times found in cases of cholecystitis or duodenal uteer which as judged by the primary pathologic process are apparently mild while in cases of apparently more advanced lesions there are few or no adhesions It is essential for the surgeon to know these ligaments in order that he may not mistake them for true adhesions G W NAGEL NID

GASTRO INTESTINAL TRACT

Wamberski W Postoperative Hæmorshages of the Gastro Intestinal Tract (Zut Fr ge der po t oper ti en Blutung udes Mag nd mt aktus) Gy n kolog ja s Ak scher tij 10 2

Postoperative hemorrhage of the gastro intestinal tract is very rare. The author reports the case of a

soman who had repeated hæmorrhage following an operation for postoperative herma in the linea alba Dunng the separation of adhesions the ligition of a few blood vessels was n cassary. Vomiting began the day after the operation and persisted for six days. By the seventh day there was severe anamia, with signs of internal hæmorrhage which lasted for three days. For four days large masses of coagu lated blood nere passed after the use of enemas. The patient then recovered.

According to von Eiselsberg this complication occurs after emboli m of the blood ressels of the stomach and is produced by ligation of the blood vessels of the pertoneum (retrograde embolism)

Infection is also a factor of importance
BLUMENTHAL (Z)

Watanabe T The Effect of Bilateral Intratho racle Sympathicotomy and Splanchicot only upon the Motor Function of the Stomach (Ueber den Einfluss der doppels sligen intra thorakalen Sympathico- und Splanchicotome auf die motori che Funktion des Magens) Ferick a 6 Geb de Penigin trokk in 1933 XX 512

In four dogs the funculus marginals of the sym pathetic nerve was divided intrathoracically above or below the exit of the splanchnic nerve. In the latter case the splanchnic area remained uninjured The re-ulting clinical phenomena were the same The observations were made by means of a perma nent duodenal fistula and the \ ray On the whole there resulted an enormou increase in excitability of the gastric musculature manifested by an increa e in the peristalsi even to the bulb of the duodenum constrictions at the pylorus and a decrease in the time of expul ion Retention may also occur The stomach was changed to a long drawn-out tube and displaced toward the left and down Its downward displacement was due to a change in the tonus of the entire gastro intestinal tract LOENIG (Z)

Bolton C Diseases of the Stomach Modern Methods of Investigation Bril M J 1923 II 260

The study of the pathologic processes occurring in the stomach was given a decided impetus by the employment of the \(^1\) ray and the fractional te temel Both of these methods of study have become firmly established and the value of their findings has been definitely determined. The estimation of absence definitely determined. The estimation of a second process of the study of t

The Rehfus method of estimating the free hydrochloric acid and total acidity has proved of value from the purely chiraci point of view but is not sufficiently accurate for scientific investigation because it neglects the protein hydrochloric acid and the hydrochloric acid neutralized by alkalue satis and transformed into morganic chlorid. The neutralization pro ess cannot be left out of account as normally it regulates the acidity of the gistric contents. In disease this self regulative mechan ism is interfe ed with by definite causes with con sequent well defined results

Boldvreff prov dth tneutralization in the stomach is due to the gu git tion I pancreatic juice from the duodeum Ther fore the r gulation of the acidity of the stom ch is a function of the duode um

When the ordinary gruel meal is gi en the per e tage of t tal blo i le pre ent represents as nea h as po ble the per mage of total h iro chlon cd ec ted The curve for the total chl r le the t u cretory curs

the acid urve indicate the add tion of Arre hadr his cared to the stomach contents an i cor re po 1 to the se in the curve for the total chi ii Hone e a fall n the ac I curs e does not mean th t sec etion ha stopped because in th event th per ent g of hydroci lorse acid would remain co t nt as the stomach empties t n licates rather th t th hy l ochloric cil is lec easing be cause of n utraliz t on by a alkali for as the acid curve des nds the morganic chlor de curve ri es and the two cr s each othe. The fill in the hadro chlo c acid urve and the concomitant rise in the sodium chlor I curve thus result from pyloric re la t on an I du denul egurgitat on and indicate the degree of pyl ric to us. Duodenal regurgitat on d fle s in normal p s ns but only within certa n

1 m ts The es ential caus f hype cidity of the ga tric co tents is a defi i nes in the neutralization or c ess Duolenal egurgitation ccurs normally nly when the stom ch is empty Deficient regurg tot on is the result of irritab hty of the pyloric sphincter leading to deficient r 1 xation or spasm

The irritability of the pylorus may be increased by local disc e or by irritability of the c ntral ner ous system which often is produced refl ly In e ther case the pyl rus may usually function normally disturbance of funct on occurring plyf m time to time The excit g cause 1 mechanical or chemical The more irritable the pylorus the slighter the excitant necessary The normal pylorus esponds to hydrochloric aci i in the stomach contents. In disease the non irritable pyl us may funct on nor mally either in the ab ence of hydrochloric ac d or in the pr sence of hypersecretion

In hyperchlorhy iria the administ ation of alkalies from one and a half to to o hours after me is will rel eve the symptoms The alministration of atro p ne rela es th pylorus and br gs do n the acil curve by neutralizat on in addition to d minishing the sec t on That atropine d mini hes the ecre tion in the fastin stom ch has been p oved by the cont nued collect on of the secretion after the stom ch has been emptied. Its beneficial effect dur g d ge t on i duep bably to its power to ela the

nylo us and restore normal duo lenal regurg tation Pyloric obstruction exhib ts str kingly the eff cts upon the various curves of l m tation of d odenal

regurgitation. In the presence of slight hour glass contraction the curve is entirely normal but when there is tight constriction the mechanical effect noted in pyloric obstruction results

The author recognizes three conditions of sub

r Excessive neutralization. This is demonstrated by a large increase in the amount of inorganic chloride are ent as compared with the diminut on in the amount of protein hydrochloric acid. A char acters tic featu e of the curves is that the inorganic curve 1 higher than the acid curve during the entire peri d of digestion. This condition is caused by duodenal regurgitation through a hypotonic pylorus The stomach is usually atomic and peristal is is diminishe l

2 Simple dimi ution in the amount of gastric juice secreted. This is demonstrated by the total chloride curve standing at 60 or below while the

stomach contains food

3 Achylia gastrica In this condition free acid is absent but protein hydrochloric acid is usually present in a nall amounts. The total chloride per centage is low (under 30) the curve approaching a straight line

The three known diseases in which subacidity occurs are cancer of the stomach gastriti and pernici us anæmia. Cancer undoubtedly dimini hes secretion and in many cases excessive neutraliz 1 on occurs in ad I tion The curves do not show whether this is due to regurgitat on or discharge from the

gro th Gastritis both the acute and the chronic causes a decrease in the amount of gastri juice secreted. It appears to the author that the relationship of hyper secretion to gastritis is t ofold the hyd ochloric acid being the cau e of the gastritis and both the hyper secretion and the ga tritis being due to a common uritant

In pernicious aniemia functional hyposecret on appears to be the secondary result of bodily and nervous debility

Following g stro enterostomy the secretion of the gastric ju ce remains unch n ed Castro-en terostomy relieves by facilitating the emptying of the stomach and allo sing free regurgitation of in testinal contents There is as yet no general consensu of opinion

as to what constit tes hyperacidity but it may be sad that as a rule amou to above 30 cem indicate hypersecret on F cess ve secretion may not be continuous hence the importance of leavin the t be sissiu for the coll ct on of the ju ce after the

stomach has become empty

With reg rd to the type of the curve during diges t on the author finds the only feature suggestive of hypersecretion is a r p d rise in the t t l chlorides when the stomach is full. The hydrochloric acid curve is not rel able as it is det rmined by the tone of the pylorus

Hypersecret on in response to stimuli transmitted from the central nervous syst m shows secretion

to be continuous and the fasting juice excessive in amount. This type is apt to occur in spasmodic

Gastric and duodenal ulcers cause both local and pyloric spasm with resulting deficiency of neutralization and hyperacidity of the stomach contents as in pyloric obstruction and the provimal sac of an hour glass stomach William E Shackleton M D

kantor J L Antacid Gastric Therapy with Especial Reference to the Use of Neutral Ant acids J 4m W Iss 023 lv x 816

The relief of gustre pain after metal by the ad mini tration of affalius is common knowledge Kantor reminds us that the mechani in wherely pini of dissipated in such instances is not so simple as we have been led to believe. The old teaching was that access of adm in the stomach evides irritation crusing spasse of the gastine musculture with associated pilotograms and carthograms. Increased associated pilotogram and carthograms. Increased painful. The talkat overcomes the pain by reducing, the bysecardity, and threely lie ening the spission.

Magnesium oxide acts as a local antiacid a sistemic alkati and a laxative. With recruit to the effects of long continued alkal zation therapy. Hardt and Rivers found that certain patients of velopid a toxermia with changes in the kidness and blood chemistry follo ving the prolonged administration of alkalia in the treatment of easter uler:

In a series of 2 o cases kantor used the neutral secondary and tertiary phosphates of calcium and magnesia. These appeared to reduce the free archite without aftering the total gastric acidity and Jid not cause systemic alkalization.

The routine treatment has been the administration of pure calcium or magic ium phosphate in lo es of one third to two teaspoonful after meils. These are tasteless and are not excreted in the urnethey control spart es improvins as nell as the alkalists and their proton ed administration cannot affect the general metabolism or cause injury to the kidness.

Ch brol 1 and Bl m J Elssure Harmorrhages
Due te Chronic A rillit—Harmaterned and
theirm Shrudaling a Gastroduodenal Ulerfut red del til ch pu —lein tember
til n nt mul lul se to-d oil pe
d tid h tm | B | lurien So mild d life d
| 0 3 3 5 6 8 10 miles So mild d life d
| 0 3 5 5 6 8 10 miles So mild d life d

lons W Nigra M D

In the case report I the hæmatenies an I me kma h I been present for eighteen months in d I d led to n N riv saminati n of the stornach for ul er The vinitiati n howed the gistre intestinal tret to be normal but recalled a large ancure m of the arch of the norta

The patient succumbed from sudden rupture of the ancursm Autopsv revealed a small i ure 5 mm in length between the tracher and orta and a small ulter in the wall of the tracher underlying

this fissure The hæmoptysis and the blood in the stools were therefore attributed to the gradual oozing of blood into the trachea Loxal E Davis M D

Carisi G Clinical Indications in the Diagnosis of Gastric Ulcer (I d itti della ci nica nella diagnosi dell'ulcera gastr (a) R f rma med 923 xxxix 584

On the basis of 104 proved cases the author dis cusses the syndrome and the laboratory findings accented as a basi for the diagno i of gastric ulcer Comiting was observed in 47 per cent of the cases The old theory that an excess of hydrochloric acid means ulcer is incorrect. In the author's cases by peracidity was present only in cases of clearly pylonic or justa pyloric ulcers and in only 70 per cent of In ulcer of the body of the stomach the acidity ranged from 50 to 60 per cent in 40 per cent of the cases hypo acidity (below 50 per cent) was resent in to per cent and true hyperacidity (above o per cent) in only so per cent. These findings are almo t identical ith those recently reported by Alessandri and Patterson who concluded that there is normal or hypo acidity in ulcer of the body of the stomach and frequent hyperacidity in cases of ny loric ulcer

With regard to the amount of gastne juice the author behaves that the presence of 100 or more cubic centimeters in the fasting stomach indicates pylone ulcer. In cases of ulcer far from the pylorus the quantity does not exceed 30 or 30 c cm.

In Carisi's opinion there are no pathognomonic imptoms of gastric ulcer. Cases of ulcer with the classic syndrome are uncommon. W. A. Brenner

Gibson C L Acute Perforation of the Stomach and Duodenum With a Report of Sixty Cases 1m J M S 9 3 dx 800

Acute perforation of the stomach or duodenum is hara terized by an acute agonizing Lufie like epign tire pain associated with severe shock. Voint ing occurs in less thin half of the cases and hirmat emessis 1 are Cold sweat appears. The fraces expres es great agons. A characteristic symptom is every pain in the left suprects, regist forces wheel

e ere pain in the left supracla cicular fossa which comes on soon after the perforation and lasts only a few minutes seldom in re than fiteen. The abid one is retracted rigid in its upper half and very tender on pressure. The author has never noted olds rain of liver dullier. Eventy four house after the perforation the symptoms are masked by personnis. The symptom are mod field by strong this self-conditions and the extent and severity of the loon.

In the differ nital di gno is appen licitis acute cholecyst its acute p increditiis and acute blee ling of a gastroi of and ulter must be considered. Two acut ab! min! conditions may occur simultane out!

The ugh a right rectus incision the author of ens the peritoneum after he has if soded the wound with wat rin order to letermine the e cape of a bubble if air. If the perforation is temporarily sealed off little

Oudard and J an The Trentment of Perforated Gastric Ulcer Perfor ted Duodenopyloric Ulc is (Trait in t le l'ulche gi trip e perforè tres d o c nylori; petfiré) Eu et mêm. S d ch de P. 1011 El 1881.

The auth is perform a ga tro-enterest my in

ing reasors

i. Clisure 1 th ulcer produces if not complete
cl truction at le st a natrowing in the p loroduod nal lum n which might ha every unfavorable

cr juen e
2 The closure of the perforation is not always
reflect

t Castro nier stomy favors the healing of the
ul er

1 Peclo ure of a very large ulcer is precieally

the sine as exilusin and in such cases ga troent to to main rend red imperative 5. Ca tro-enterostoma loss a tigreatly increase

 Ca tro-enterostoms Des n t greatly increase the oper it e tr uma

N nea ware rej rted

Hitzenberger K. Ulcer Clentrix of the St mach (Uber d. Ulum beam Mag.) 4 h f gath And 1 h pag v. 1 424

An examination of thirteen uller sears was raise with partial of reference to 1 sit; the labe to labe to a ffeet's uller is the was entirel above to labe executioner well and in reld well of mere sears was present to in attendance degree it is of importance appropriate the agree results become and the search of the search of the search of the time to the search of the search of the search of the time to the search of the search of the search of the time to the search of the search of the search of the time to the search of the search of the search of the time to the search of the search of the search of the time to the search of the search of the search of the search of the time to the search of the search of the search of the search of the time to the search of the search of the search of the search of the time to the search of the search of the search of the search of the time to the search of t

The arrang ment of the elastic to use is generally characteristic. The firmest and full, est misses leed the beneath the mucos while tower of the serves the fibers become four and weaker and only in the siberson, except the serves in the serves of the se

The mucous membrane a generally the cker o er the circumstant in its variety and is after pixely where either mucous membranes after pixely could be careful from the sate pixely and the gradient seen. To right the see the different layers of the wall of the stand to these same the cream that there is not the country of the same that the country of the c

f alls merg with the sea to us.

No sears are power in clustic to use elements but inch in cessels, while oil series are rich in elasticities us and poor in cessel. Lymph fold cless are always at ent.

To tark (2)

Beer T Tie Surgers of Catric and Drodenal Ulcers and Thi Complication (B trag ru Clauge des Mg & 1 D in ligsch f is Kmilkti) D ich Zick

The author recess the 146 cases of gastric and duod nat ulce perated upon in the koenigsberg clip of from 19 to 00. There were 101 cases of

ulcer of the stomach thirty five of ulcer of the duodenum and eight of multiple ulcers Most of the patients were between 40 and 60 years of age Ulcers of the duodenum occurred four times as often in men Exclusive of mineteen perforating as in women ulcers with an operative mortality of 63 1 per cent the operative mortality was 10 5 per cent Hyper acidity was found in a I per cent of seventy one ea tru analyses normal acidity in 32 4 per cent subnormal acidity in 15 5 per cent and absence of free hydrochloric acid in 20 4 per cent

In 75 per cent of ninety two roentgen ray examin ations it was possible to locate the site of the ulcer

before operation

In cases with a ars and uncomplicated ulcers of the body of the stomach simple gastro enterostomy gave good results. In cases with scars and uncom plicated ulcer of the duodenum at the pylorus of in its vicinity gastro enterostomy was supplemented by fascial heation folded tamponade or undateral exclu ion of the pylorus In cases of callous and penetrating ulcers of the lesser curvature tran verse resection was the method of choice but if this appeared too dangerous, a simple gastro enterestomy was done Fenetrating duodenal ulcers were resected according to the Billroth I or II method if this was technically possible. The operative mortal to a gastro enterestomy with or without exclu-

sion of the pylorus was a p per cent Of fifty one patients forty (8 4 per cent) may be regarded as cured Of six subjected to unilateral exclusion of the pylorus five were cured and one greatly benefited Of twelve subjected to trans verse resection who were re examined all were cured The Billroth methods have a high operative mortality but their permanent results are good No case of peptic ulcer of the jejunum was observed following unilateral exclusion of the pylorus The fact that peptic jejunal ulcers develop mort fre quently after gastro enterestomy without radical removal of the duodenal ulcer strengthens the theory that the continued presence of the ulcer in the duo denum is of etiological importance. If this is correct primary radi al removal of the duodenal ulcer would be indicated as a prophylactic measure cases of patients subjected to gastro enterestomy with or without exclusion of the pylorus and in those subjected to the Billroth resection method gastric analysis follo ving a test breakfast showed usually a very marked decrease in the acidity Also following transverse resection very low values were found for free hydrochloric acid and total acidity enterostomy or resection are followed by disturbances \ ray examination with the test meal can be undertaken without danger

The author regards the physiological narrowing of the stomach at the pylo us as a factor favoring the development of ulce The angle and the stric ture development at the isthmus ventriculi may be entirely removed by transvers resection and nar rowing of the pylorus by pyloric resection

KONJETZNY (Z)

Rennett T I The Early Diagnosis of Cancer of the Stomach by Means of Gastric Analys s Brit M J 1023 11 275

Rennett states that if the patient with cancer of the stomach is properly prepared overnight and if careful examination of the contents of the fasting stomach is made the following morning evidence of strgnation of of hamorrhage with aberrant secretion or of both will usually be found These signs are not apt to be confused with those noted

in other di eases The biochemist is too often asked to make a report on a specimen removed from a patient whom he has never seen and of whose clinical state he is en tirely temorant in consequence his reports tend to become technical statements written from a view point very different from that of the chinician and tend to omit data s high though of small chemical importance may be of great significance in a clinical

The detection of early gastric carcinoma becomes possible if steps are taken to make stagnation easily demonstrable this can be done by giving finely divided charcoal in milk the evening before the examination

In a series of fifty three cases in which the clinical diagno is of gastric car moma was made charcoal was visible in the fasting contents the next morning in thirty and other signs of stagnation were present in twenty of the remaining thirty five cases. In thirty five cases fresh or partially broken up blood was present

In conclusion the author states that if gastric analysis were regarded as a clinical rather than a laboratory procedure and if the evidence discu sed were sou ht in every case of gastric disturbance cancer of the stomach would be diagno ed much more frequently while it is still in the operable WILLIAM E SHACKLETO

Waitzfelder W The Roentgen D agnosis of Car cinomatous Ulcer (Zur R e tg nd agn e de Ul u care a mate um) Fe i cl 2 G b d R + 1 g si ahle 77 91 923

As even the pathologico anatomical differential diagnosis between callous and carcinomatous ulcer is often difficult the clinical diagnosis is usually impossible However there are a few cases in which the history the chinical picture and especially the roentgen ray examination may furnish important in dications of malignant change in a gastric ulcer The author reports two cases in which the develop

ment of carcinoma in an ulcer was shown by the roentgen ray and confirmed at operation The first was a case of carcinoma of the lesser curvature in which in addition to the politive signs of ulcer con sisting of a niche and spistic contract on a filling defect could be seen The second was a case of ulcer of the pylorus in which the rocatgen picture of a benign pyloric stenosis became compl cated by a dis tinct filling defect in the outline of the stomach

GRAUGAN (Z)

Fitts J B Cancer of the Stomach A Re lew of Fifty Op rati ely and Pati ologically Proved Cases S th M J 19 3 xv 587

Thirty five of the patients whose cases are review d by Fitts were males. The youngest was 25 years of age and the oldest 81 Most of them were between 40 and 50 years of age. Only four g v a h story of m lightney in the immediate fam ! The subj t e symptoms had been present for from it week to several years. In 60 per cent th h d been noted f r less than two years The principal symptoms ere sournes fullness regurgi titi n p 1 so eness belch ng choking omiting gis ght lo nd cacheria Ep gistric prin w s b nt in 56 per ent and considerable comiting o curr d in only 16 per cent. In 34 per cent there was n n loable tumor. In many the gastri analy si wa normal Hydrochloric acid was absent in o per cent. In the author opinion a decrease in acid to n ted on rep ated t st 1 sug esti e of m lign ney. Hyp ref lorhydria was present in only 16 pr cent of h s cases In so per cent pus cell w re pre ent a very important finding. Occult bleeding oc rred in 6 per cent. In makin, a diag nosis of g st ic c neer all of the symptoms mu t be t k n int conside ation a none of them is p thog потоп с In all doubtful ases exploration is ind cat d

The pr sent n, imptoms may be class ted acoding t the sit aton of the cancer. When I soon is the pilus spin mand it is cau epain follows and vointing. When it is on the nie no or posterior will early symptoms are been that lat there local ir tation with harmon high or melana. Vie on at the crd a causes choking regulation and difficulty in swallowing. When both intil and posterior walls are involved rapid mintil y social.

Ange 1 e test fo occult blood s hen the pattern i on am at free dit ist of particular alue in muling out can. The import nt po it e oenigen fi dings are illing defects e natara in all plat a patent rol stru ted pilorus loc læd absence of cale rugg r ted or i egullar p talss anti-persial rapid mptu g and c taction or ditation the towner. Of peculi impo tance in that one that the ment of peculi impo tance in p tiedlarly those a sociated that a prenyl r cfiling p tiedlarly those a sociated that a prenyl r cfiling defect.

Kloe H nd Rosenb um Canné P A Con tributi n on Surgery of th Stom h Com p rati Experimental Studi of the V i u Sutu es (B trag Mg hrug: gl h d p m t ll U ter h g b d M n ht) A h f M C 1 193 xx 5

The s tu es studed were () the single seros ous sutur (2) th d uble sut f Cenv and (1) the ntr turn d in sutur of Schmid n ith a primpo ed se oserous s tu e. The authors thempted t l term n at which rece s a diffence in the bealing of wounds made with the

knife and the Paquelin cautery and whether soft Doy en clamps cause mjury to the gastic wall. The e perimental animals were cats which had been fasted for twenty four hours before the operation. On the greater curvature of the stomach a fold was formed clumped off vith - Doyen clamp opened with a knife or the Paquelin cautery and sutured immediately, by one of the method investment

It is a found that healing was unaffected by the method of suturing except that it occurred shiply more quickly after the dubble row methods. The use of the causer after the single row methods. The use of the causer after the single row methods. The use of the causer after the single row methods. Clamp inpurs so that me no in with the knile Clamp inpurs causer divided in the control of the con

Mut land Fourche Ar tof Intestinal Rotatin in Its First Stag s (A &t.d lnt sinitet lå s pmrs tad) Bil timem Soc nat d P 93 vc 38

This observation was mude by the authors in a feirus of 'months in which rotation of the intes is eshould have been completed. The rotation had been art set it at stage in which the duodeno j ju tal angle v as still situated in the right ideo of the ab lomen it the level of the splenic flexure on the lift that is to sty at a stage corresponding to a rotation of good eigrees.

The 10 to to the server of the total to the server filled to the server that t

Simuzig P Intu u ception w th Especial
R fe nee t Childho d (D I gnn ti mt
beso d f cek ht gu g des k i lter)
Sh R d l f ll d 9 3 13 41

Follo in a report of t in cases treated at the Zurch Ch Id en at II sat all during the period of om 1000 to 0 th nutbor d cuse the patholog cal an interval of the patholog cal and the patholog calculation of the attention to entire a 10 miles of the patholog calculation of the patholog ca

In early childhood when practically only the acute intu susception occur shock is the chief com plication frequently leading to death. Ther is also great danger of peritoritis because of the greater tenderness and susceptibility to injury of the in

fant a intestine The symptoms of importance in the diagnosis are severe pain due to the traction on the mesenters which frequently causes collap e bloody stool a tumor which is palpable under narcosis and in rare cases facal vomiting According to Kloiber the I ray may give conclusive evidence of intestinal obstruction by revealing the pre ence of di tention above the constriction Spontaneous cure of intus su ception is rare in children and cannot be counted upon Internal therapy such as the introduction of air or better of water and ma ane can be success ful only in the very first hours and soon becomes ontra indicated because of the danger of p riora tion or increasing the invagination by enlargin the sheath and forcing it over the intussusceptum. In tussusception in childhood is therefore to be reparded as a sure cal condition in which a favorable outcome depend upon early operation Thi should con 1st p eferably of a langratory a direduction of the intussus eption under light chloroform anæs thesia. When there is interference with the nutri tion of the invaginated portion (black di coloration failure of peristal 1) and when reduction of the in tussusception is impossible resection must be per tormed The steps in this technique are d cribe l as follows

I Suturing of the sero a at the neck of the in vagination to the pro im 1 loop

2 Lon itudinal incision of the intussuscipiens op po ite the mesenteric insertion

3 Circular separation and suturns of the in. er and middle cylinders as close to the neck of the in

tus usciens as pos ible Removal of the strangulate 1 portion

Suture of the inci ion in the intussuscipiens If the invaginating portion also shows disturb ances of nutrition resection of the entire mass is in

Of the author's ten patients eight ere c red by operation and two died. One of the latter was not op rated upon SIEVERS (Z)

Descarp ntries Thr Cases of Int at nai In aging tion in Ch idren (T tion in Ch idren (T c in m t 9 3 3 695

The first to of these three cases which were operat d upon by the author vere fatal. In the thi d in which h resorted to drainage of the cacum through the appendix there was rapid recovery The drain was inserted in the appendix after the latter had been br ught to the surface through a McBurney inc sion and sutured to the skin. On the fifteenth day the appendix was section d and the cacum and external opening ve e closed. The operation quickly evacuated the to ic intestinal con

tents combatted the effects of paralytic ileus and prevented recurrence of the invagination W A BRENNAN

Lagrot F Submesenteric Strangulation of the Small Intestine Due to Abnormal Insertion of the Mesentery (Ft a lem t sous mé ente ique du g el par su t d'ins tio an rmale du mésen tère) Bull 1 mem Soc anat de Par 923 C 1

The author's case was that of a man aged so years Strangulation of the small intestine by the

mesentery is very rare Normally the mesentery is inserted at the duo deno jejunal angle. In the case reported it was in serted high on the lumbar spine and the loop of gut was strangled between it and the spine The p tient died of intestinal occlusion of eight days duration The cau e of the occlu ion was found at autopsy Signs of previous attacks included a bilocular forma tion of the somach and scars on the transverse mesocolon A very long tleocæcal ppendix was found just beneath the kinked mesenteric insertion The primary iliac artery was calcified the left testicie was in incumal ectopia and the left pleura sho ed effusion

In the author opinion the occlusion was due to the abnormally elevated situation of the cecum arrested in its descent this anomaly disturbing the hae of insertion of the mesentery on the stane

W A BRENDAN

Rosenfeld A Three Cases of Heus Due to Defects in the Me entery (D 1 l'aelle von Ileus of Ige Diktnd M t sums) Est 4 st 1023 11

Following a brief review of the literature and a discussion of the causes of mesenteric defects, the author reports three cases in which large's ctions of the small intestine slipped through such defects and became in accerated In to case there was avial torsion of 180 degree Although operation was per formed a fe v hours after the beginning of the pain and other indication portions of the incarcerated gut in two cases were found to be almost gangrenou and both of these patients died one of them from pneumonia after the drain had been removed and the lapatoto ny wound had healed by primary in en tion The third patient had a smooth convalescence and vas discharged cured ROSENFFLD (Z)

Beck A The Diagnos s of Duodenal Ulcer (D e D g ose d Ulcu duodens) B tr kl n Ch 93 T T 3

The accuracy of cl nical diagnosis was determined in 106 cases operated upon A probable diagnosis of duodenal ulcer had been made in 90 per cent The history was of value especially when it included night pain hunger pain and I a n several hours after The pain vas usually localized to the right of the umbilious or in the epipastrium Vomiting of a watery vomitus was mentioned in nearly half of the cases and acid regurgitation in more than half The periodic ty of the attacks is very characteristic Palpation occult blood and the acidity index are The roentgen e amination should of little value of he over rated. Too much importance is often ascribed to direct bulbus symptoms New cases are characte used the effy by hyperto in of the lower part of the stomach nereased peri talks and frequent tiling of the bulbus while in older cases motor in sufficienc s the most prominent sign B 1. NER (Z)

Denk W. Repeated R section of the St mach and Colon in the Tre tment of An tomo Peptic Ulcer f th Jejunum (Z rim lg Magen t nQklesekt tumjju) ZilbifCi w ge Ulcus pen-0 3 1 466

The patient a woman 3 years of age had been operated upon in 1013 for duod nal ulcer unilateral exel son of the p loru bein d e by the you E els berg method. In 10 a pentic ulcer of the sesunum appeared and perfo ated into the t ansverse colon At a econd oper t in the st much the an stomosis a d the middle po tion of the trens erse c lon were No months later another peptic ulcer de eloped B u of the patient s weak condition and the large s e of the inflamm tory tumor a This was fol temp rary 1 jun t my was done low d b consider ble imp o ement but about t enty month lat r there were s gns of a second ienta colic ne foratio Another resection performed as shown in six illust ations included in the article was I llow d by a successful result

VORSCHUETZ (Z)

J hnson J A Me kel D erticulum as an Etio I gical Fact r in Inte tinal Obstructi n R port of Three Case M

Some r mnant of the omphalo mesenteric duct per cent of all persons examt ed. The duct may reman patent through ut its entire length or only in the m ddle segment. When it re main patent only t the intestinal end it is known s Meckel's diverticulum. The is the most common type observed nd m v or m v not have a mesenteri attachment of ts own

A divert ulum fthi type is subjet to the diseases c mmon to the testinal tract. It may become inflamed and its I men may become occluded by Mo e commonly however t is a fo e gn body tself the c use of int stinal obstruct n According to Halstead t was the espon ble factor in 6 per ics of 669 ase fintestinal obstruction The most commo form of obstruction s bro ght about by a constrict g band consisting of the divertiulum or it cord Ob truct on from this c use occurs usually about the twentieth year of age but m v be fou 1 al o in the very young nd the ery old

The pr sence of the an maly is us ally disco e ed at ope at on for int tinal b truct o or a ute anpendiciti It s not as are s m y surgeons be

here and the possibility of its presence is imporant in considering the acute abdomen. The author reports three cases upon which he operated WILLIAM J PICKETT M.D.

Solieri S Cone nital and Acou red Deformity of the Heo taco Aprendicular Plica Cau ed by lle cæcal Positional Stenoses (D formità c g nite ed qu te d lla pl c leo-ceco-appe dicolare ca sadi ste os leo-cecal di posi o) Arch tal 0 3 VU 51

On the basis of three cases which were operated upon the first for chronic appendicitis with probable pericolic membranes and the second and third with the clin cal diagnosis of ileocarcal stenoses due to adhesions folloving operation for appendicitis Solvers reaches the following conclusions

The last po tion of the ileum may as ume a vicious posit on with respect to the cæcum through adherence to the cocum and rotation of its axis d waward and externally Such an abnormal post tion creates an obstruction to the evacuation of faces from the ileum into the cacum corresponding to the ileocarcal valve, an ileocarcal stenosis of post t on It may be due to a congenital deformity or to an acquired retraction of the ileo-caco-appendicular plica

2 Such a positional ileocarcal stenosis is d stinct from others locat d in the right iliac fossa which depend upon a qu te different anatomo pathological condition (pert deocarcal membrane Lane's kink etc)

The cicatricial adherence of the ileum to the 2 cæcum may follow an append cectomy as the result of constriction of the ileo-carco-appendicular plica by the ligatu es applied for hæmostasis prior to sec tion of the mesentery

Therefore during an operation for appendict tis the relationship of the ileo carco-annendicular plica to the appendix mesentery and cacum should be determ ned and the mesentery and plica sectioned sen rately in such a way that the ileum will remain free and will not become t visted beneath to vard the cacum

5 In ope ations on the excum and appendix the surface of the excum which is freed of serosa should be well peritonized. W A BRENIN

Gos et A Canc of th Lowe End of the Small Int tin Treated by Deep Radi therapy After Heo igm id An stomos s Extirpation Second Operation A Detailed Hi tologic d l te mi aison d l test grele Study (Ca p l dithérp pof d'apè to-léo-gm id n'et pt nda u se d' m'h tologiq dét llé) B'll et t a té p t mp mém S d ch d P Q 3 X 458 The author reports a case of cancer of the small

intestin in nem ciat d feeble woman 64 years of age The clinical picture was characterized by pain ful peristaltic contrictions of the subumbilical r gion omiting nd the s gas of threatening intes

tinal obstruction. The condition had begun six months previously as a gastine distribance with epigastic heaviness the cructation of gas constipation alternating with fetted distribute and fever for four weeks. Two months later scripetime movements appeared around and below the unbulicus. These were associated with severe pain (not true color) nuese womiting and the passage of three or four feeth distributed by the properties of the color of t

showed only a dilated rectal pouch

Operation revealed an annular growth at the lower end of the sleum with marked lymphatic extension in the mesentery and small subperstoneal nodules which seemed to indicate that a sufficiently wide ex cision would be impossible. Therefore a lateral anas tomosis was made and followed by deep radiother apy The roentgen treatment was particularly easy because of the thin abdominal walls and the relative fixity of the tumor under the wall Beginning on the twenty eighth day after the operation nine treat ments totaling seven and one half hours were given with 4 ma and a 40-cm spark at a distance from the cathode to the skin of 35 cm and with a filtration of / mm of doubled zine and 2 mm of aluminum The rectangular opening was 1 cm on the side Finally two months after the first operation the tumor and o cm of the intestine were resected mesenteric plands were no longer perceptible intestine at the level of the neonlasm appeared f brous The patient made an uneventful recovery

The specimen showed almost complete obstruction induration of the intestinal wall and mesenters and ulceration of the entire inner circumference with an indurated spreading edge Wicros opperation of the disappearance of all

cancer cells

Lateral anastomosus followed by deep radiotheray v and subsequent resection was preferable to radiotherapy without operation because the cicatricial contracture re ulting from the \text{ray caused} stenosis threatening ob truction

Tuffer calls attention to the fact that frequently gastric and intestinal cancers which are removable at the first operation are aggravated and dissemunated by explorators manipulations to such an extent that from four to six weeks later they become inoperable

In Hallopeau's opinionitis well to delay operation for from four to six weeks after radiotherapy in order to obtain the full effect of the \tay on the tumor WALTER C BURKET W.D.

Burnett F L The Inte tinal Rate and the Form of the Faces Am J R tg of 9 3 509

The intestinal rate was estimated by studying ray plates made five ten twenty five and fifty hours after the taking of the barium and by noting

the length of time after the ingestion of 50 c cm of millet seeds when more than five of the seeds were first and last seen. The latter was the method com

monly employed

The time taken by the food to piss through the
gastro intestinal tract seemed to bear a definite
relation to the form of the faces. When the seeds
first appeared at fourteen hours and were still
present at saxty two hours (rig. 62) the stools were
soft and formless. When the rate was 25 o7 the
faces were formed with marks and when the rate
was 62 134 they were entirely composed of units
Accelerated rates with a vivation of from 60 to 15
hours in the initial appearance of the seeds gave rise
to large stools with units marked portions and soft
formless portions. Retarded rates were productive
of small stools with small units

Not only the study of the rate from the physiological viewpoint but success in the treatment of priteria indicates that the unit form of the Leces is the normal one and that the intestinal contents have completed the three essential forms of intestinal motility. Marks are an indication of haustral segmentation. Charges H Hzecock MD

Ciacinto G The Surgical Treatment of Mega colon (Contribute al trattamento chru gico del m g colon) Pol clin R me 1923 xxx sez chir 28

Guarnto reports two cases of megacolon in adults. In one case the enormous dilatation was limited to the ilian sigmoid and caused the phe nomena of occlusion \ \text{cocotomy} ha ing failed to give permanent relief the loop was resected and the continuity of the intestine restored by end to end some of the continuity of the intestine restored by end to end some office of the continuity of the intestine restored by end to end some office of the continuity of the intestine restored by end to end

The author summarizes the results of various operations in 219 c ses as follows

Operati	Cases	Rec	Kecu Ca	D th
I es mal pu re Valvulo my	s			4
Lapa tray Art salas dire I	,	3		6
Colo omy	5	3 5	3	5
E o mosis Criple to Col T y Colect my	43	5	5 7	
Colect my Tul	**	59	-3	-\$

Some surgeons believe that the treatment of mega colon should always be surgeal because of the necessity for constant enemats the extension them easily for constant enemats the extension theoretic continuation of the possibility of them to exclusion or volvulus but Giacinto maintains that his condition crub esupported for decades without great injury to the general health and that operations about a tell mint at to cases accompanied by acute or subscute to clusion and to cases with severe ster corremia. When occlusion is incomplete repeated

en m ta h uld be tried before operation. In cases with omplite occluion complicated with steric riginia the utho fa orsicolectomy.

With British

Lo an A II Ti ree Ca s of Chronic Ulcerative Col t Cured by Iodine II d Ci V 1m

I t n v us methods of treating chronic ul att olt funkn wn etiology tincture of od v g en b n uth It w s found that th uth i dthough th intestinal crinel as the i i of potas iun v h h as excreted through the ville the ville the six e noted

The cass r poted reentirely cured and any oth sweet tempor rily benefited. In others hwith the as no improvement. The conclusion of any other than the line acted by causing a general metabolishange rather than by its local effect.

Miller R T Jr Cancer of the Colon

This art 1 i based upon 129 cas so f cancer of the colon xcl si of the rectum 1 the t me of their adm. on to the hospital only a few more than one half of the p t ent ga ca his try of partial atests nal ob tructs n and in the cases the condition had been present for ne ity, very Re ection resulted in a fit experience of the case the condition had adjust go green to of the one has the cases admitted and na gas green to of the one has the deperation was a fit of the case that the operation was

Exam nation of the its ue removed disclosed but one ca e ith metastas in the Jimphatic plands. This p tient was lot is ght of six and a h li years after the oper tone. As 75 per ent of the recu ences appear after the end of the fifth year it is eason ble to assume that he died of recurrence asson the to assume that the died of recurrence it has it true the is no endence in the series of cases re is well to indicate that canner if the colon is cut able by operation if feet the occurrence of metastasis to the himph it is glands.

The author concludes that it is a case: curable by surgical me in this result will be chieved just as suely by local exciton of the growth bearing part of the gut as by an ope, tion of much greater extent. Hone or the arrangement of the blood visels of the colon is such that it may be necess part to make a much more extens a resection in order to assort the viability of their min in 1 suses.

S MIEL KAIRY MD

Rankin F W and Scholl A J Resection I the Pro m 1 Col n i Ni lignancy 4 ch 3 g

The right half of the colon is readly in blize of permitting color surgical e posus e. This half of the colon is not essent; it of le and its removal is not often follo ed by ser ous complications. Vlatignant tumors in the execum and ascending color in metast size late consequently the results of tipation of the grawth are good if the cancer is in the right side of the colon the best results are obtuned by removing the right hall of the colon and a potton of the tieum and following thi procedure with a ilectodic anastomous. The right bowel is moth and by freeing two points one at the excum and the other on the transverse colon where the resction is to be performed. The perstoneal attachment of it might colon to the ught abdomingal wall is then divided the colon is drawn toward the midline and the colon and islum are resected between claims.

There are several common methods of resions the continuity of the lumen of the bowel after re moval of the primary growth. Lateral anastomous may be carn for out either by sutu e or by the seo of a button for intestinal anastomous. This method has the desafd-antage that it leave is bland pouches in which faces m. y collect. A button may be used to make the second of the button in placed in the end of the colon of the button is placed in the end of the colon In the end to end anastomos s. the two ends of the old are po ned by direct suture the mucous men brane and the serous coats being app or mated with separate sutures. Following resection of the bowel an leostomy is made about 30 cm above the anastomous. This is so poneed only in case of emergency.

One hundred and fifty cases of resects n of the right s de of the colon are reported from the Via o Chinic. Complete postoperative data were obtainable in 133 Sixts two (47 per cent) of the patients lived mo e than three years afte the operation 151fty seven (43 per cent) are still alive

ALBERT J SCHOLL M.D.

Chat n Five Ca es of Surgery of the Colon (Cinq ber t and hi u goed ol) B I I mim Scd h d P 19 3 ! 43?

In the author's twenty two cas's of one stage to ection of the large intestine including the fit reported in this article there were five details a mortality of 22.7 per cent. The twenty that o case included eight abdomino per in al ampitations of the ection. The five cases reported in this article in the case of the

cluded four one stage resections of the colon and one ileosigmoidostomy for inoperable cancer of the left flexur of the colon. All of the patients recorded

from the operation

Okinery, eattributes the author's success in the radical one stage or ction and stute largety to his method of int a abdommal e teriorization. This method of int a abdommal e teriorization. This work is suffered to the suttered area with old I mig use so that the wound is 10 updit dereith and are doubled. Two larget was a seplected on the sd's with their lower edge in contact in the merce tery. Ca est the not to heap up the ends nor to fold them upon them de es as this might make their removal tufficial. Two wick e do are fasten dupon the sides of the operative field. Two may be successful to the power of the sides of the operative field. Two wicks are the substitute disposed on the power and off was set they are upon the sides of the operative field. The work of the sides of the operative field. The bodomial wall is closed above and below the with bedomials wall is closed above and below the with

pace of 5 cm being left at their level. I ushing he drains apart exposes the line of suture which omnunicates directly vith the exterior

On the twelfth day they ithdrawal of the wicks is egun by gentle traction. Removal requires soveral lays and is frequently followed by a seropurulent cakage. The author has never cawed disumon by intention during removal of the drains. In the absence of a facal fistula, the parietics close sponta neoully without secondary suture.

In the author's opinion the iodoform licks ward off primary infection prevent secondary breaking down and in case a fixeal fistula develops will favor drainage to the exterior WALTER C BURKET MID

Holmgren F Changes in the Structure of the Intestine in Man As ociated with the Formation of an Artificial Anus (vera nde ungen in der Struktur des Men chend tmes im Zusammenhammthauti gelegten \u03bb us praeternaturals) A 1 4 3 3 1 4 49

This article reports the anatomical finding in a case of artificial anus which had been formed three and one half years previously in a 13 year-old pa tient and which opened with four intestinal lumina near the ileocacal valve. The four openings two of which did not di charge facal smelling contents were formed by a coil of intestine inextricably bound by dense peritoratic adhesions. In an area about 4 cm in diameter the mucosa of the small intestine had a sume I completely the characteristics of large intestine mucosa. The cell of Paneth were preserved. There was present allo an extremely un usual development of numerous branched tubular and ampullar glands resembling duodenal glands These lay vithin the tunica propria and d eper in the tell muscularis

Many of the ducts showed sac like dilatations The cells of the ducts resembled the e of the ur face epithelium of the stomach vibile those in the deeper portions of the ducts resembled the secreting cells of the epithelium of the stomach describes the nature of the secretion of these glands and the secretion itself. He comes to the conclusion that there was here an adaptation of the intestinal mucosa and that the d scribed glands have the same function as the anal's eat gland round ng skin had developed large anal sneat glands Ho ever as the entodermal intestinal epithelium could not develop a est glands these being exclu si els ectodermal structures use was made of the submucous duodenal gl n is the type of gland which most accessible to the intestine

hebek A Retrocecial Incarceration of a Retroperitone liternia that mention ceal miRec 1 retrope to le liter e) But 1 tellist tel 19 1923 i 200

A retrocæcal incarceration due to a subserous tuberculous excal tumor is lescribed briefly. The patient was completely cuted followin an ileocæcal resection and a von Liselsberg anastoriosis.

Locar (Z)

Jennings J E The Rôle of Bacillus Welchil in Gangrenous Appendicitis and the Use of the Antitoxon of Bull and I ritchett in its Treat ment V J rk W J & Med Rec 1923 CX u

In appendicitis with localized spreading or general peritoratis cultures and a guinea pig inocula tion should be made at the time of operation. The report of the results in the annual will be available in two hours and the culture will be available for verification in from twelve to twenty four hours. If the intravenous injection of bacillas so did not of the culture of the contravenous injection of the given inmediately. In certain cases of a preading peritoristic as anear from the peritoneal fluid will show the presence of encapsulated bacilla recognizable as bacillas welchis In such cases, a wait of even two hours before injection. I munistifiable.

After from twelve to twenty four hours another injection of rook cm should be given. The climcal response in cases showing a rapid pulse and cyanosis is well marked the pulse becomes slower the cyanosis disappears and the patient's general condition becomes better. In active cases of diffuse peritorities the serum should be administered in massive and repeated doses but never to take the place of sur gical measures or to delay operation.

In conclusion the author states that the antitovin may prove of value in cases of intestinal obstruction and as a prophylactic in gunshot wounds of the bowel and operations on the intestinal tract

HOWARD A MCKNIGHT M D

Ma dagân J M Chronic Appendicitis in Infancy (Ape d iti rónica n la i fancia) Rev méd d Ros 19 3 % ii 1 3

The records of the Children's Hospital of Rosano show that 9 per cent of all operations are for chronic appendictus. The end results of appendicetion for chronic appendictus in children are excellent. There is marked improvement in the general condition the child grian's cight and recovers its strength and color and in the cases of poorly developed children there is sometimes a marked in crease in growth. Undominal pain digestive disturb aness vomiting and naives cress entirely and an acute cri i which might be fatal is prevented. The author therefore concludes that appendicectomy is definitely indicated in appendicity in infants.

WA BERNAN

Lower W L and Jones T F Surgery of the App nd x J im W i r 1923 lx 1 629

The mortality rate of operations for acute appear ductus ran es from 3 to 6 per cent but the end results up at ents. For survive are almost uniformly good. On the other hand the percentage of cases of chrome appendicuts in which operation does not work of the survive appearance of the survive red et al adammely high 1 no 26 cases reviewed b Deaver and Raydin no relief: as obtained in 70 per cent and only partial relief in 0 per cent. In 450

cases reviewed by Cibson no relief was obtained in 22 o per cent and only partial relief in 15 2 per cent

30 per ceut ano on a printir heur a 18; per cent. In the authors opinion the high operative mor tartest and the post and the post to the per cent. In the author opinion the printing and the post are the in high great ure to the common being that a even; case the only proper procedure is the removal of the appendix Both the lasts and the medical profession should realize that acute appendix that the proper should be a special profession should realize that acute appendix to the common special profession should realize that acute appendix that the property of the proper

norrect diagno is
In the acute cases the mortality i III be greatly
reduced by the appl cation of the Ochaner treatment
before operation the Fowler position site operation
plu the Ochan i treatment plus the Alonzo Clark
treatment for peritonistic plus the application of
large hot packs over the abdomen plus hipoder
mochais. In the operation the authors adm the to
Cirle's principl of confining the primary procedure
to no on and dramage if the appendix is not readly
to the operation that the content of the operation of the operation the
ton bong differred until the acute ting
a passed. In doubt I/I cases expectably in women and some
times in children they prefer an incuson through
the right lipse semilurans as offering the east est

op n n for exploration of the lower abdomen.

Chronic appendicitis is difficult to diagnose as it
is mulated by num no sother conditions. Among
the latt r are cholel thissis catarrhal jaundice gas
tric ulcer ovarian tumor salp ngits psoas abscess.

and pneumonia with abdominal pain

Acute appendiciti occurs more frequently in men and chr nic append citis me e frequently in wom n The diagnosis of append c tis in infants and small children may be aided by the induct on of scope-

I mine morphin anæsthesia when pr ssure on the ppendix will elicit a muscle spasm

In conclusion the authors state that in acute appendicitis more stress should be laid on the treat ment of the associated pertointis and less on the mere remoy 1 of the appendix

WILLIAM A HE DRICKS M

Da ld V C Cong nital Stricture of t

Child en S CC 1 In to The the reports four cases of rectum the first with a membrane vopening the second similar to the ircular n rr ing of the mucosa at the thr de thankelde shapedore two-thirds or luding the anternot two-thirds of and the fourth a case of imperior than a mail middle of a sear runn a from the penne coccus.

Da if attributes such malformations to the ur wental membrane to separate the from tho bladd r completely or failure of to todo um to meet and unite with the mese

Thy r clas fied as follows

r Preternatural narrowing of the anorectal region without complete occlusion

2 Complete occlus on of the anus by a simple

membranous diaphragm or by integument

3 Inus absent and rectum ends g in a cul de sac above its normal outlet without any connection whatever either internal or external.

4 Anus normal externally but ending in a cul de sac and the rectum ending in a bind pouch above the sac being senarated by a septum

5. Anus ab ent and the rectum prolonged in the form of a fistula terminating in an abnormal anus at the glass penis lab a pudenda or any point about the perineum or scrotum

6 Anus absent and the rectum terminating in the bladder urethra or vag na or into a cloaca in the

periodum with the trethra and vagina

Anus and rectum normal but the treters the

vagina and uterus opening into the rectal cavity 8 Rectum entirely absent

9 Rectum and colon absent and the bowel possibly opening by an abnormal sinus in some unusual

part of the body
Preternatural narrowing of the anal region with
out complete occlusion occurs about t cm from the

anal opening. It may be valvular or tubular of form. The valvular stricture consists of mucosa and submucosa and is due to incomplet union between the anus and rectum. It is just above the mucocu taneous level soft and plable and usually bout 3 to 5 cm thick. The mucosa of the rectum below.

the disphragm is normal rather than leather like and indurated as in inflamin for 5 strictures of the rectum Congenital strictures of the rectum which are coil indured development of the proctodeum or the descendiction of the rectum. They are usuall a cm in length and have rigid walls incl. The layers of the

and have rigid walls incl for the layers of the bonel Ho Knight MD with forceps At about the level of the promontory and beginning at the side interrupted silk sutures were placed which at the highest possible level in cluded the perstoneum and the bladder or uterine wall on the one side and the peritoneum and the wall of the flexure on the other 'Small needles were used All of the sutures vere inserted before tving was done Three centimeters lower another suture vas placed and a third at the edge of the perito neum In the manner the pouch of Douglas was clo ed off the hermal sac obliterated and the pelvic colon fastened as far as the promontory to the poste rior vall of the bladder or uterus. In conclusion muscle flaps were formed on both sides from the gluteus maximus with their bases toward the sa crum and fixed to the lateral and anterior surfaces of the rectum. On the posterior side of the rectum both muscle flaps were sutured at the level of the sphinc ter Drainage was e tabl hed through the defects formed by the removal of the muscle flaps Finally a circular suture of thick catgut was placed sub cutaneou ly about the anus

Morphine was given for five days. The after treatment included faradization of the perineal re-

gion to stren then the sphincter The author believed that up to the time of his

operation obliteration of the pouch of Douglas had been done only by laparotomy. However he dis covered that the sacral route had been tried on the cadaver by Duval and Lenorment. Napalkow proceeded by the perineal route but with very un favorable results (rupture of the uterus injury of the rectum).

In the use of the parasacral route the dang r of injuring the va cular nerves is entirely absent but in the performance of a muscle plastic by the perincal route such injury may occur very easily in spite of all precaution Crossin, of the muscle flaps around the rectum is not recommended because of the danger of stenosis Rectopevy 1 insufficient Colo pexy dimini h s the depth of the peritoneal funnel and may therefore have good results especially an anastomos s between the highly elevated pelvic colon and the descending colon accord , to the method of Friedrich has the pro pect of permanent results becau e the entire intestine hangs from the firmly fixed splenic flexure However it is then best to resect the entire s gmoid flexure in order to prevent obstipation and the formation of fæcal masses.

Ausmaell fixed the pel ic colon by three silk sutures to the anterior surface of the sacrum or the anterior longitudinal I gament of the sp ril column Thete wa no recu rence. However follon ng this procedure there is danger that the sigmoid colon may become kink d this causin severe of stipation.

The author ment one as an ad antage of his method part cularly as compared with Kuemmell's that it can be carried out und r light parasacral conduction anaesthesia. Therefore advanced age is not a contra indication. Another advantage is that the peritoneum is opined only to a small extent.

SCHUENEMANN (Z)

Landsman A A Bleed ng from the Rectum
A ch Pedi i 1923 \ 1 53

Rectal bleeding may arise from a variety of causes local and general but this discussion is limited to cases of rectal hæmorrhage in children which is traceable to die ae of the lower portion of the large intestine

Loss of blood from the rectum is not infrequent in adults but is less common in children and rate in infants since excessors of different ages are under the control of the

Steady bleeding even in small quantities is cer tain to be followed by serious consequences. In order to give more than temporary relief the cause must be found

Of the disturbances responsible for rectal bleeding in older children only two require particular consideration in the cases of infants viz congenital syphilis and lesions arising from developmental faults such as faulty union between the proctodeum and the brid gut

Older children may have the diseases which affect the younger but usually other conditions such as the younger but usually other conditions such as proposed the rectum insignation of the bowel ulceration fissure foreign body and abscess are the cueses of the bleeding

The rectal polyp occurring in childhood is usually the benign adenoma single pedunculated and implanted low down. This may give rise to serious bleeding.

Prolapse of the rectum is relatively common in children up to 4 or 5 years of age and is accompanied by slight bleeding during or after defactation. It is not a true prolapse but a protrusion of mucous membrane loosened by increased intra abdominal pressure in chronic constipation whooping cough diarrhead diseases or some other condition with excessive straining. True prolapse is an invagination of one part of the rectum into another part and in children is an acute affection characterized by the signs of intestinal obstruction shock and bleeding from the bowel.

Uteration of the rectum is caused by syphin to theretoiss malignancy amehans intestinal parasites genorrhors and proctitis due to toxins. Any one of these conducions may cause varying degrees of bleeding uteres and malignancy are rare in childra. Ance but parasites especially thread worms round worms out parasites especially thread worms round worms and tapeworms are not uncommon. Gonorrhead uters occur most frequently in female children the difference of the control of the control

Ulcers from toxic causes are found in the severe forms of scarlet fever d phtheria mea 1 s and other infections

Infections
I sures of the and skin are een in un leri our

I had children suff on from constipution or har

Bleeding from 1 jury cau el by a forei n boli s diagnosed from the history and the fin large it p octos opic e a limition. Alse es may follow re m al of the feega boly.

Rect 1 blee ling from hamorrhoids 1 extrem ly rare; 1 fant an ich lidrin but ein titute them stommo type in lulis. However manyes silig no el s'hamorrioils thir rectil live es.

MALRICE VI R TET MD

LIVER GALL BLADDER PANCREAS AND

Kummer E Tearly of the Ri, I t Branci of ti Hepati Duct Op ration Rec ery (Arr le t d l d t l l l t ery (Arr le t gué) B il t mé S d l J

93 1 47

A gilgaria of the first bear theo a theo a upon be clab an autono solido one who log's han he passed of the I do an gitup a lask it has be complained of I lora it pain. He fale bear be complained of I lora it pain. He fale bear be and the dyrg at the trous and the dyrg at the solidon and the solidon a

and camph ted 1 sgren On the se d da th p tr t was dro y le fac sloved a b tte 1 he r pir ti n was 10 e tranquil he to peature 30 3 d gr s C n l h pule 160 On the th reld v tin cu edt e and the tempe at r dbt en 181 a 1 185 dgces C thu ndtl ren 1 On the tourth d y th t mier ture ran ed bet n ; 5 adis der es Caulitrict nile m vid t and ther was a strong u of iln e t n tle u ne On the sixth d v there as a light prione liftus on On these enth da a h le t ol er pis d th fe pe to alfil increasel dip re developed the beteric tint bea de p temperatue ran d fr n ; to 38 d g es C a d the p t ent complained of se p in in the ight hypochondrium the as no grave anamia

Operation performed on the ele enth d through med nep gastric incison with a t on to the right re called a light flu into of bile stained coagulated mate al fibrirous exudate pe it neat i joc tion lil lak ge and d post of filtri round the jit of the right lep to duct had been com

pletely t rn off
The perit ne i fluid was prat d with the suction pump. As it was mposs ble to anast mo e th

end of the to nduct a catheter with lateral open awas ped core the fire pace bet een the torn duct end three u h in it is not in the common duct and three in position h is the sat ut stitled class the common duct increase. A draw in though the part torn ourd was then pace I in the torn help at ed ct and an there are to the cloed in issue in the country of the contrast of the cont

The pipritic curse was uncompleated. During this if volume the east bunding bid runs, [300 cerv]. If the matter removed it the red off the volume is the red of the volume is the volume in the red of the volume is the volume in the provinced effu on the attention of the volume is the volume in the volume is the volume is the volume is the volume in the volume is the volume is the volume in the volume in the volume is the volume in the volume in the volume is the volume in the volume in the volume is the volume in the volume in the volume is the volume in the volume in the volume is the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume is the volume in the volume in the volume in the volume in the volume is the volume in the volu

bles it frm tlparton al fld

WALTER C BLEEF M D

Ell h F AD cusinof Bilars Cytsin Connction little Report fat tof their pat leD et the yo Man Had Which Ware Rem db O ration (tld dblk you you rath the cyt rath t

Hit is no reason to end and I velop dither wanterman. To of the lir With the exception I digund. In very end i thought the command in the com

Ik visofil con 13 bl d t the e of the hpit latar on tl Chillithan itruma hinth go ill by s dinl d creas n the table min lost. Vo Lo Mare (4)

In RA Call Bl dd De e with Special R frice to the little c c Γ 1 din J1 J1 J2 J3 J4

I the auth opn 1 duoro copy has et y finter | 1 on the | 1 no of gail binde felen is 1 n y 1 which the find ngs in the fate ere ngit e he has seen th and cutions of pathologi in the flu o c. pe. On the other hand, be has found the c. re equal true. The rout it use of the fluoroscope ill po e il e peeme or absence of s g st ord of links of he piper collion. The fluor the fluoroscope and n with the ultimate roents n

The subject is discussed under six headings viz (1) the stomach (2) the bulbus duodens (3) the duodenum and its behavior beyond the cap (4) fixation and nathologic immobilization (s) the local ization of tend r points and (6) the differential

dia nosis With regard to the stomach the author states that peri talsis may show variations a ociated with adlesions A positi e sign is the pres nee of a gall I helder seat in the greater cury ture of the antrum Similarly a pressure filling I feet may I e noted in the bull us duoden: I ctation un l r the fluoro one frequently permits the vi unlization of such gall I lad I r seats which might otherwiche over loke I A sign ficant finding 1 st sis in the duodenum with distation frequently accompanied be a to and fro movement of the paque med in th that I parts of the duo I num are gury tate nanto the full In all except hyper the tp tfr as byation of the dualenum agaist the und a urfa c of the lay r pullers of the 1 m ch to the meht with pyloric fixation abn rmal in, lation of the duolenal arch and sou rin of the ut p r markin f the bull us by traction with a full ston ich in ther th upright or the p n jo ition isu ll m ana; tho lo r gall bladd r Albesions of the claim the riel t upper quadrant has an in p rtant b a nu n

the diagnosis He localization of gall | | d | r t nd rnc s is gently finilitated by the fluoro age Indones Ing the lverlord rsl > n to be c to ly t l of the g trount stinul tr to bi his ug to of a

rithal gogall Hidle In the differents lingue a contest file ro cope and roentgen ratio vanit main to f tle utmost vili a l the tean such o litt ns pylone and di di lul r pati l gy f the ran ere then bikid in the piche menanomalouly Ich po his in well his ti mus helfron gall 11 11 1

AD LEVEL OF M D

Biccirani L A Spec 1R ctl n of tl Co on of miss Billiam Orle n 5

Chlesst m 1 a compini it lumban as well as ly nurtin Il 1 rh fll s nattack of pinatle than a thate fthe gillfall har ar frait na tin of foul The int time di 1 rgs on t of ble

W IRFS

erl 1 Iole R S ١. Ideratio f Tun or as a Smitm f CuB dd ba ţ

The nuth report

I pest I tt ck His is the theat gli thost gli r In 5 ester e 1 beson tile i a n n atr ru ilar tg to ar trm i n sula o fat abdom nal

wall and a gall bladder situated deep under and in the right lobe the findings of palpation are often obscured Ordinarily a palpable gall bladder is pear shaped movable laterally and mesially especially when the right lobe of the liver is movable and situated directly beneath the abdominal wall where it returns when it is pressed away Unic s at as found down by adhesions it moves with respira tion Con litions frequently confused with a palnable gall bladder are a right cost c or movable kidnes tumors of the ascending colon and hepatic flexure and a hydatid cyst of the liver Valuable aid in the dineng is are distention of the colon with air and ure teral catheterization

In the examination for an enlarg d gall bladder gentleness is es ential a hot bath morphine or ev n and thesia may be neces any to climinate voluntary n idity. In serous cholecy titis the tenderness de creases era oon on or sure but in the gangre nous or purulent type this never occurs. The latter remur ammediate interference but in cases of the erous type operation should be delayed for a week after the d appearance of symptoms in ord r to allo v the inflammation to sul side

The local tenderness and constitutional symptoms do not il vays pro ress bare bassu with the extent and events of the Lease but a rapid nulle a bigh fever severe pain and ten ferne s and a poor general con lition and cate a severe gangrenou cholecy states k perte i ch le v titis often lerves adhesions v hich g e ti e to the symptoms of severe cholecystitis freeing of such a lhesion often gives complete relief Lerf rit on of a gin renous gill bladder occurred in only ten f eries of 1 000 cales. An increase n the rea of t inderness and rigility a chill per hip the sudden relief of the pain and an increase in the t mperature added to an acute cholecystiti ind it a de loping pe itonitis. Under such eir cum t nce simple fruna e should be done. I cr forat on of the gall blad ler into the liver the stom ach or the inte tine all o suggests peritoniti the late results are of truction

LOUIS S FALST M D

Uffred zzi O Cl olelithia s from the Sureical lont of tie il clitzid I punt de ta ługi j R m d 923 x 1x 48

Medical treatment | f gull stone is not so poor in its re ults n r urgi al treatment so good as to war ant the conclus on that this disea e should always b treat I surg ally There is no general rule gov erning all ca es. When operation is considered we mu t take into eccount not only its dangers and in convenences but also the fact that if the patient is not operated upon he vill alwa s be exposed to e offic tons that ma threaten life Simple cases of re ur in type hould be jud ed on this ba is Chro sn ple cl leastitis if a sociated with oc n of the cystic fact and hydrons of the gall ball r clearly in leates operation because its ef fects are grave a d difficult to overcome The is true also of purulent cholecystitis. In cases of severe complications of gangrenous or perforative type with more or less circumscribed peritonitis the operative indication is all the more clear

The mortality of operation in uncomplicated cases is nil and in cases of circumscribed complications does not exce d a per cent. It becomes high only when the complic tions have been permitted to TA A BEE IN advance

In a con cases operated upon for the rem al of e ll st s there was a re urrence in a per cent Re urrent olics a e cau. d hiefly to pasti con t actions of the duodenum du to th underling disease and not to the perati n I r ting h lan ent's and eastro intestinal complications are lue to neglected calculus and speak more in fa or of than gainst early operat n Further re e rch i p es s ry to e pl n the nature of perichel evstiti I le stass a d milar c nditions prim ry cholannit nancreatitis to and the relationship of cutarribil icterus to du d n l ul r In the cases reviewe l the mortal ty f oper t one performed during the attack wa louble th t of operations performed The mortality according to

age as as follows A. 76 9 59 • 75 45-5 t 25 3 9 5 55 3 41 0-30 1 0 55-10 ón 4 35 2 11 36-4 66 7 7 05 4 4 0 35 45

during a r mi i n

In 11 533 operations there vere 1 052 deaths a mortal ty of o 12 per cent. One fourth of the d aths were due to peritoniti In order to pre ent th complication the operation should be performed dur ing a rem s n The technique should consist in a subserous enu l at on of the gall bl dlr ith atten t on to the pos ble pre ence of aberrant b le ducts If remo al of the gall bladder is very 1 fl cult ch le cystostomy should be performed instead of chole cystectomy I rec drag ge should be established.

Other d aths in the cases reviewed were du to postoperative insufficiency of vital organs resulting from log continued infection and old age

It is endent from these statistics that the results of operation are best between the ages of 20 and 40 yea's (average m tality 4 per cent) that operation should be performed if possible during a remis n and ith v ry careful techniq e and that in old age it should be performed only when imperatively necessary STETTINER (Z)

W Izel The T eatment of Stones in the Comm n D t(Z r Ih rap des C! ! loct u te s) 4 ler sammi d d ! h G s ll h f Cl 0 3

The author recommends prima v suture of the common duct with stretching of the papilla. It is possible to stretch the papilla so that it will pass even a No 24 Charnère catheter. In twenty five cales treated in this manner there was only one death. The fear that tears will result which will lead later to stenosis i unfound d In some f the au thor s cases a rubber tube was inserted. In three this was passed by rectum in from it to fourteen d as an one cas at was not no sed but caused no trouble. Moorbal le drains may be employed

In the di cu fon of this p per Agary also also cated str tch ne of the par ila.

TIETZE state I that in the narenchyma of the liver in cases of gall the ider d sease he had f un i changes ran in from mo lerate cellects as of leucocytes in the bil ary 12, a ges to acute vellow atrophy f the of his pati nts ded from hepatic in uff ei nes. The chief ciu e of the en n est tout tion. Ther fore choleevstectomy must be follo ed by careful fter treatment

Homenaus called att ation to the h Tcultus en counter d in sec n lars operations on the common an I hepat d cts II believes th ta such cases the I er and two lenum should be sutu ed so that the I men of the opened biliary mas e will communi cate with the luodenum

CORDI & urge I early operation. He believes that the factors chelly responsibl for the symptoms are the stass, and the inflammat on rather than

VON HABERER showed a rare perimen con. stin of a gall I lad for divided by a septum and havin two outlets

Brat's allocated the med names on dange if neces ary can be established through a unter opening to the infacti n of anasthesia in his e ses an injection of core lamine morph ne is go en the elees of the kin inci ion are infiltrated and planchin c an esthesia is a ld 1 after opening of the abdomen Of 171 one at: ns ninets three were per f rmed un i r local anysthesia. For the p event n of hemorrhage in chronic o clu ion of the common duct he recommend I tle proph la te transfesion el 200 c cm of citrated blood

ROLPRE called atte to u t a clinical peture which is eas ly confuse I with that of gall stone d s ease namely purul nt fibrin us pe in patiti. He found this condition in six of 107 cases i gall bladder d case The focus I is on the anterior sur face of the li er un fer the a cl of the ribs and man be ally overlooked. As a rule in s ch cases Roepke removes the gall blad I r In the after treatment latherms was found I val c

Ro T st ted that he loubte I the a lue of treating acute yellow atr phy of the I er by dra ing the biliary pa sages. He calle I attent on to the fact that many conditions are err neously di g osed as acute In this co nection he reported a sellow atropts of thome acterus associated with duodenal ulcer in which route yello at ophy of the liver was suggested by the findings f ne plor tory excision but after choledocho-duo tenostomy the seterus d s appeared

GULECKE called attention to the fact that after choledocho duodenostomy the \ ray may show the regurgitation of chyme into the biliary passages and stated that the union of the duodenum and the gall bladder does not give such poor results

PERTHES reported that since 1916 he has seen sixteen cases of ascaride in the biliary passages Therefore he believes that acute occlusion as well as chrome occlusion of the common duct is an indica

tion for operative interference

COLMERS recommended for incision of the skin a high transverse incision with the separation of both

KIRSCHNER emphasized the importance of not only palpating but also probing the common duct in operations for gall stones In every case of cholc dochotomy he drains externally

FLOERCKEY reported that he had re examined fourteen patients who had been subjected to choledocho-duodenostomy during the period from 1910 to 1914 and found that most of them were able to follow their vocations

BRUETT reported on the bacteriology of acute cholecustitis on the basis of 100 cases The bacillus coli was found in so ner cent the pneumococcus in 10 per cent the staphy lococcus albus in 10 per cent some type of streptococcus in other cases and the gas bacillus in one case. These findings show the importance of caution in the primary clo ure of w punds

LEXER spoke in favor of the median incision stating that it rend is observation easy if the patient is properly placed in a position of marked lordosis STETTIMER (Z)

Savariaud Accidental Division of the Common Duct in Retrograde Cholecystectomy (A pr p s d 1 s ction ac identell du ch' l dogu dans l cholecy te tomic ret ograd) B ll el mêm S deel de Pa 193 1

Hartman divided the hepatic duct in his one hundredth retrograde cholecystectomy Savariaud d vided the common duct in one case an I the henatic duct in another. He implanted the common duct into the duodenum and the hepatic duct into the stomach Both patients recovered

During traction on the gall bladder to reach the cystic duct in retrograde cholecystectomy the common duct or bepatic duct may b unintentionally ligated. The only case in a high Gosset divided the common duct was a case of retrograde chole cystectomy Fnd to end suture of the hepatic and common ducts resulted in recovery Kehr reports filteen common duct injuries per 1 000 retrograde cholecy stectomies

Th oretically the duct extending from the lover end of the gall bladder is the existe duct but if the cystic duct is dilated by a large stone it i practically the common duct If the portion below the d lata tion is divided the common duct is unavoidably cut The hepatic duct is easily injured when it is adherent to the gall bladder

To avoid accidental division of the common or the hepatic duct the dilated cystic duct and accessory passages may be incised upward toward the junc ture until bile is seen to well from the lower end of the hepatic duct Before a retrograde cholecyst ectomy is attempted the triangle formed by the juncture of the cystic hepatic and common ducts should always be exposed. This is easily done by incising and reflecting the peritoneum

Go set prefers retrograde cholecystectoms be cau e of the ea e of ligating the vessel and locating the line of cleavage with the liver and because of the simplicity of subserous drainage

WALTER C BURKET M D

Judd E S The Condition of the Common Duct After Cholecystectomy J 111 17 111 1923 lx to 7 4

When the gall bladder is removed or destroyed the remaining extrahepatic bile ducts generally dilate to several times their normal size and the sphincter at the ampulla becomes incompetent So far as can be estimated the resultant physiological changes are of little if any consequence

One of the causes for the continuation or recurrence of symptoms after the removal of the call bladder is a stone in the common duct. Usually such a stone can be located and removed but occasionally it may pass up into the intrahepatic ducts and may be overlooked

Symptoms may continue for a time after an operation on the gall bladder because of the accumulation of mucus in the ducts Colicky attacks of this origin may occur for two or three weeks before they finally subside

Changes in the bile ducts resulting from removal of a gall bladder which was not entirely functionless may be the cause of symptoms very similar to the original hepatic colic Some of the persistent symp toms following gall blad ler operations may be due to such changes

The continuation or the recurrence of symptoms in twenty four patients who were re operated upon was due probably to infection in the pancrea or the liver or both The expec ant diagnosis v as common duct stone but no stone was present and there was no evidence that one had pas ed. Most of these cases were permanently relieved by draina e of the

In a review of forty seven cases of stricture of the common duct only five were found in a high the stricture might have been the result of necrosis or destruction of the mucous membrane of the luct due to the presence of a stone The gall bladd r v as operated upon in all forty seven cases but the com mon duct was opened in only fifteen. Therefore a strictu e of the duct resulted in the remaining thirty ts o following an operat on on the gall blad ler. In most instances these strictures were due probably to technical difficulties and scar tissue. They will not occur so frequently in the future as in the past because less abdominal drainage is being used

From it is taken the formal was the gall ballet in a belief at the formal was not be form in the own in distance the gall ballet as being a construction of the formal was a construction to the construction of the formal was a construction to the construction of the formal was a construction of th

OM to little

I many it tribucerth in an annual many in the state of th

In the ir to the legith of the

Irel nl G. Hæm rri adle I ancreatiff. Due 1 Serp nt Ven m. i... titt ben mr. 1 et I ri nt. S = mell. 1

Mer in a citic parton that ring the sepent on mid by lin hum him to held rint the proceed to be to the line the

I The enome ferpent up teliminther ner at lucter uses all the epiceratts trea on fits protected by the maintenance of the protection of th

2 5 1 seen felomell cass inches a line of the parties

3 M toth screte nuchamiting

Instant 1 1 oft on their 1 top 1 is to 1 is a few set of the set o

fldr of the u slos of the second to a sthere a roc tain not me. (A Ban)

MISCELLATEOLS

It technic to Cirinic leters. Due to Tube cul in fine thands of the lie atom offer. If a ment (in most of model gratility in the state of the fit of the culture of the

Heautherspeech case often die took in not be considered in fermine the standard seek of the plant leith heart is delighted by the standard seek of the plant leith heart is delighted to the seek of t

per t n fre tgen gra softhe at 1 men 11 4 Ba v a

GYNECOLOGY

UTERUS

Combler Y Mur rd J and Chilol at A Report on Eight Cases of Genital Prolapse Treated by Part al Colpocles (Le cl son eme t du nmm t tmnt des p laps ge tu hut b t) Bill et me: Se d ch de Par 9 3 l 716

Chifolian reports on eight cases of prolapse of the uterus treated by Combier and Murard Point in the operative technique emphasized are (1) the

uterus treated by Comper and variaties to the operative technique emphasized are (i) the stretching of the tro raw surfaces to be approximated and (2) the suturing of the raw surfaces. The stretching is extended almost the entire depth of the scened usell beginning from line just below

of the vaginal wall beginning from a line just below the external os This 1 done by pushing the cerviv as high as possible with a clamp. In this position, the two points corresponding to the two centremities of the superior transverse line of inci ion are marked. The same procedure i applied to the inferior limit in width the zone of demudation occupies almost the In the stutimen of the ede so of the raw surfaces.

great care is taken not to leave any d ad space
The operation is done under local anasthesia

Of the four vomen operated upon in this manner in 1012 one died after it eyears but the operat result was good. One patient has not been seen since Two have been well for over ten years. The re ults vere satt factory all on the other four three of hom were operated upon in 19 1 and one in 19.

SALVATORE P. PLAIS M.D.

Ge nez M P tial Colpocies s as a Method of Tratin Gen tal P olaps (L l n m nt du agn mme t a tem t d p l psu gé tau) B ll i t S d cl de P ozz l 739

Partial colpocless for the correction of genital prolapse was performed by the modified Lefort tech inque on two patients one 6 years old and the other 69. The advantages of this method are

The harmlessness of the loc l anæsthesia
Operative simplicity pursestring sutures obliterating all dead pages

3 Excellent results
The author's patients had semile atrophy of the

uterus vith almost entire absence of cerv cal secretion Salvarore pi Palma M D

Forsdik S Tle T atment of S er Uter ne

Il cm rrhage by R dium B t M J 93

14 9

M tindale I Menorri gia Treated by Int ns e

N Ray Tile apy B t M J 93 4

FORSDIKE states that functional uter ne hæmo hage is relieved by radium becau e of chan es pro

duced in the endometrium rather than because of effects produced in the ovaries To date he has treated at it, five cress All of them were severe and forty three had been subjected to some typic of operation the majority a didatation and curet tage. The reddum, va apple of vithin the uterus following a priliminary curettag. The youngest patient was 18 ears of age and the oldest 55 years No were so veal, when fir t seen that they were brought in for treatment in an ambulance. Fifty milli rams of rudum placed in the uterus fort entire four hourse tabbished amenorihea. The sole contra indication is pelve pentonitis. Radium produces a menoribuse without the symptoms usually attributa

ble to the natural menopause

MARTINDALE reports that he has obtained encour
a nig results in numerous cas s of menorrhagia
from the use of intensive \ rays He lays special
stress upon the importance of accurate measurement
of the dosage
HARRY W. FUR M. D.

Savariaud and De_ra s Inoperable Epithel oma of the Neck of the Uterus Curettage and Ra d um Treatment A Cure for Mor Than Ten Years (Et thelloma du | utent) operabl c_t

tag trad m g sond pl d h ans) Bill t em Soc decl de P 19 3 vh 43

The authors report the case of a woman with

can er of the uterine cervix and the upper part of the vagina is ho as treated by them elevin pears ago. As the entire cervix had been destroyed and radical operation va simpso ble only curetizing was done. In the resulting cavity we e placed do in mor fadium bronde in six cap ules of 'mm plat inum filtered by i mm of silver and i cm of gauze. The first application v hich lasted for forty eight hours was followed eight days later by the same dosage for it ently four hours. Two months later a third treatment with the first quantity was given as a this time almost the entire vagina was found exiderine de the treatment which the resulting the patient has been im good health ever since.

In another apparently hopeless case the same treatment was followed by good health for four years but a recurrence then developed in the lym phatic glands Kudory Mara, M.D.

ADNEXAL AND PERIUTERINE CONDITIONS

Allen E and Dolsy E A An Ovarian Hormone
A Prelimin ry Report on Its Local zation
Ext action and Partial Pur fication and Action

In Fest Animal Ji Wis 931 rt 89
During the anabohe phase of the estrual cycle in the rat and mouse the ep thelium of the vigina grows to a considerable thickness and a confied layer simi

lar to that in the epidermis develops. During the catabolic phase the outer live so of this pythelium degenerate and are removed by leucocytic action. Microscopic e-mination of vaginal smears is a reliable method of determining the ostrual condition of the living animal.

Since these cyclic phenomena in the genital tract cease after double ovariectomy the r induction by the 1 jection of ovari n extracts constitutes a positive test for the efficiency of such extracts

The a thors experiments vere carried out ith I quot follicult from hog or aries contrusing follicles I ag er than 5 mm in d am ter. The follicular coa tents (liquor follicult f llicle cells and occasional ova) we e asp r ted through a hypodermic needle into a suct n bottle.

In the first series of e per ments nine mice and rats were prejived for use a test animals by double of a tectomy and a week later were given at intervals of five hours three injections of the apparated injuor folliculi. The njections were made subcutaneously in the belief that the result in slow absorption would be more closely comparable to the secretion of the hormone in normal animals.

From forty to forty eight hours after the first injection all of the animals receiving liquor follicult were in full cestrus is at termined by microscopic exam nation of the smears and by histologic examination of the uterus and vagina after the animals had been kiled.

Tests with the centrifugal zed liquor and Berke feldt filtrate sho ed that the hormone is extracellular and present in the liquor foll cult

As liquor foll culi's the its large protein content would be unsuitable for continued in ctions into pat ents r test an mals the c tract is no prepared as follows

Fresh I quor foll cul is added to a double volume of or per cent | lcohol and allowed to stand until the prote n re coagulated The coagulum is then fl tered off The filtrate which is practically protein free contains the active constituent. Further extrac tion of the coa ulated protein with boiling alcohol vields an additional amount of the hormone The alcohol is distilled off and the res du l'aqueous su pen n e tracted with ether. The ther extract is evaporated and the sol ds are dried in a vacuum desice tor The r sidue is dissolved in a minimal quantity of ether and a double quant ty of aceto e is added To nsu e c mpletene s of s p r tion the solution and precipitation ar repeated tyace. The combined filtrates are then evapo ated and the residue is d ed By bo ling out the solid mat rial with or per cent alcohol the active substance is obtained free fr m protein but contaminated with a Ittl f tty mat ral The lcohol 1 ev por ted off and the minute ilv residue taken up in purified corn olor mul ion n dil te sod um carbonate

Fu ther an mal experiments having confirmed their earlier finding the autho's make the f llowing p l m nary announcement concerning the follicular hormone and its action I From one to three injections of the extraction spayed animals causes typical extratal byper arms growth and hypersecretion in the genital tract and growth in the maturary glands. These changes include the chemical and correlation in the changes include the chemical and correlation in the changes include the chemical animal. After a time the effect of the injections versi off and typical degenerative changes set in The hotmone seems to be an efficient substitute for the enderrine function of the overness of the non-pregnent animal. It is probable that its alternate presente and absence in the circulation is sufficient to the control of the correlation of the correlation in the grant and the probable that its alternate presente and absence in the circulation is sufficient.

2 While the spaxed animals so treated are material to the control of a returnal by induced estrus they can be mated with normal vigorous males. They expended the preal material present animal is followed by the formation of typical vaginal plags. Since these animals vill copulate only when in certical the conclusion of the control of the control

discussion as the cause of cestrual or maturg astuncts 3. When several injections of active extracts were made into animals imm d ately after wanning between the ages of 3 and 4 weeks they became se ually mature in from two to four days at least wenty to forty days before the usual tume of pu berty. Dramperted litter susters did not attain to puberty prematurely. From these experiments are considered than several to the consideration of the tender of the consumant of the consumant of the tender of the consumant of the tender of the consumant on of the tender of the consumant on the tender of the consumant of the tender of the t

4 To date only negative results have been obtained from extracts of corpora lutea made in the experimental laboratory and from commercial extracts of ovaries corpora lutea and ovarian residue made by three of the largest firms manufacturing b oloread products.

5 It as probable that the hormone under discus
5 on as produced under the unfluence of maturi go a
by their follicl cell Since it is obtained from the
overses of hops and cattle and g s s res its in the
mouse and rat at its not species specific. It is prob
ably p oduced in all ovaries as their own mature and
their force is prob bly common to all female animal
Carl H Days VD

Ramony C jal O Tie Gen i of Derm id Cysts
of the O ary (Algu fi es b l g i
d l q t s d m d del van) Cin y i b

The author reports a tubal pregnuncy in a 36 year old s oman which as complicat d by a der m id cyst of the o ary somewhat smiller than a fetal head at term. The lower pole of the cyst extended to the sixtra cavity and its upper pole joined the poster; part of the tubal tumor. It was a typical dermoid not containing my ov rian tissue. Its contents consisted of schelar lessible enclosed in

a thick membranous covering there was no macro scopic or microscopic evidence to indicate residue of dental origin such as is usually found in formations of this kind Microscopically the dermoid elements of the cyst were similar to those usually observed in such tumors Like most others the cyst was formed by greatly altered cephalic residue 1e from the cranium mandible etc

In di cussing the genesis of dermoid cysts of the ovacy (which gynecologists in general believe is different from that of dermoid cysts elsewhere) Ramon y Cajal suggests that the generative factor in these singular formations is a deviation from the typical development of the embryoric tissues some of the embry onic cells becoming separated develop ing independently and forming a rudimentary W A BREVVAN embryo

Bourne A W Bonney V Bell W B and Phil lips L Discussion on the Treatment of Acute Salpinoitis B | M J 1923

BOURNE states that the treatment of saloingitis is surgical and the be t time to arrest the inflammatory process is in its early stages. During the past fer years he has been able to trace eleven patients upon whom he operated for acute suppurative salpingitis within a few days of the first on et of pain. All of them vere in good condition. He describes his technique as follows

At Imparotomy the tube is slit up as far as possible along the border opposite its mesenteric attachment the pus is very gently swabbed away and the mu cous membrane is carefully inspected. If the tube appears intact and is free from gross areas of ulcera tion it is left in situ without any further treatment beyond the introduction of a few sutures of fine catgut to fix the mucocutaneous surfaces where arterial bleeding occurs If the tube is found to con tain gray patches of ulceration and gangrene its functional recovery 1 impossible and it is therefore removed Cysts of the ovary are removed to pre vent the formation of ovarian absce ses A drainage tube is then placed at the bottom of the pouch of Douglas and the abdomen is closed

In discussing this treatment Bourne states that the laying open of the tube establi hes proper drain age which favors resolution of the inflammation and prevents the permanent changes which a ould result from the continuation of the inflammation Preg

nancy has been known to follow salpingostomy upon a tube in a state of chronic inflammation and it i reasonable to assume that good function might ful low the operation performed in the presence of acute inflammation

BONNEY also advocates early operation in all cases of salpingitis. In the twenty years in which he has been operating early he has never lost a case Early operation always has the advantage over expectant treatment in that it conserves the ovaries Spontaneous cure of a pyosalping or an ovarian or pelvic absress is usually effected through adhesion of the mass to the pelvic colon and the discharge of the ous into the bowel

BELL states that in his opinion salpingostomy will fail in a number of cases because of involvement of

the interstitial portion of the tube PHILLIPS reports that he has had considerable experience in the reconstruction of the fallonian tubes the operations including salpingostomy par tial salpingectomy resection and anastomosis and

incision and resulture after canalization. His tech nique for salpingostomy is as follows

The cervical canal is dilated and a sterile swab is placed against the cervix. The abdomen is then opened and after the contents of the tube have been milked out air is injected by means of a larg syringe to expand the tube and expose any kinks The having been done 20 c cm of a 1 1 000 flavine solution are forced through the tube so that when

the cervical plug is removed an orange stain will indicate tubal patency The same procedure is then repeated on the other tube with the use of violet green as the indicator

The free margins of the tubes are slit for about 1 4 in and the cut edges oversewn with a continu ous buttonhole statch of No on catgut on a very fine needle Finally the round ligaments are shortened If the ostral end of the tube is torn so that it cannot be reconstructed it is removed and a new opening is made at the free end of the tube If a definite ob struction is encountered when the tube is distended with air or is threaded over a needle the affected portion is excised and the cut ends are re united. In some cases the stenosed region is incised longi tudinally and sewed up transversely

Of tventy women subjected to reconstructive operations on the fallopian tubes five ubsequently became pregnant HARRY W LINE M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Sch zz O II nd McNalley F I (1 n % in tl Uter ne Ve I Dir no Ir nancy im J

The other amound tents four other for the harmonic tent of the harmonic tent of the harmonic tent of the tent of t

I g in it e)

I h h s th intervant from mill
fir is plan i l m to fil inter wall
the plane h c in l is of linted to
the plane h c in l is of linted to
the ges and the c c n in l is closure to
the c in intervant i l is like him is
ere fund in kein fil eleute interior enter
the character i rit cribally coolaller
to the character i cribally coolaller
unuffiction in the character in the other ere
unuffiction in the character in the other
unuffiction in the character in the character
unuffiction in the charact

In the forth turn uter the claim ear the viris er very striking e print nout ne In the latter e many fithe vin ver oll nanl hed some by alin to In the uters from cales of early print no left uter changing the verner found In the ferent rest uters the

ns nak (list na legal sho ed enjittis his his nd e freequative on pe el and bu k list n this to the call pe of the chief changes all goods of the chief changes all gous to tho found in the pot partium uters risent nail but two permens in ne of the latter the chief should be considered to the chief changes of the considered the chief c

The fain, in the potential territary that no second that no second

In one of the four uters from cases of p eg cy of

le d tinet

from twe ty fou t it rty s r ceks duration there ere no intimal ching s while n th tle othe s definite change we ef und into a decibility change we ef und into a decibility change we ef und into a decibility change we stone that s med gine a ton of th internal l st c membrine. These ching did not not) the majority of the ve

The authors coreful that he more extended neration is lied to redestrated by Coold linguage continuity by turn frequents of all marrors steem. In three case, his habit is their stim knive lehit there was the reinfarct for to that plecular.

Wymeer cl. A and Olb cht. F. The Tre t

m at of the Tuberculou Free ant Wom
((1 is At | 1 | 1 | 1 | 5 | cull use gra
) 6 (1 | 13 | 1 | 17

In this ritcle th auth 5 d cu 5 (1) the in

In this frien author is covered to the form of the friend the first the firs

it nayls pail, a Idmonary the real is has letter not use on the force of ry distinct but I mailt is a 1 in the letter of Withing to the four effective painting the force of the the state of the state

tilerculosis e del i lipremittreli.
Teliterchear un entititie fili nin oftubar culou parent. In en here latari tunto e il ast apredisposititite ulo it hauthors qui te Cr. h.r. h. rep. telititi el 2,000 infinits mose lifrontie infitted in them there il e librili i ron il ninon), seven de eloped i breul i Thee et al o Dulhi tri portitato d'a 400 infinits to

th mer ert

tutere l anlis per cent of thos

tuberculous mother who vere removed to healthful surroundings only one developed tuberculosis From this it would appear that the prime factor in the tran m 10n of the disease to the infant 1 it con

tact with the mother after birth

With re ard to the influence of gestation on the cour e of pulmonary tuberculo is the authors state that in the ag rayation of the pulmonary les on un healthful environment excessive work and the path alo it phenomena directly due to gestation such as hypereme i gravidarum mav play a part. Bar attribute such change to the d calcification pro ce s cau ed by the demand of th fetus Stern Bar and D rvai ne have hown that e en in the ab ence of chinical evidence of tuberculo s the preg nant oman may show a marke I diminute n in the cutaneous reaction to tuber ulin that the reaction is weak in the major ty of ci es and in a few it i totally absent Couland att ibut the reduction to hyp ractivity of the thyro d , hile I es ing r and Barodin believe it is du to a d crease in liver fun tion From Geeraer 1 stati t cs it is evident that gestation has a relati ely slight untoward influence on tuberculou les ons of the mild or the al ified type but that in case with more advanced pul monary tuberculos: shot in a tendency to progress and in those in which the di ease i manifested clinically follow in delivery it has a markedly un favorable influence upon the pro nosis

With regard to the treatment of the tuberculous gravid woman the authors tabulate the end results obtained by a larg number of German Italian and French ob tetr cians v ho advocate therapeutic abor They themselves however preier medical treatment the patient bein kept under close obser vation by both the obstetrician and the internit In cases 1th advanced and 1 curable lun lesions the aim is to prolong the life of the mother in order to at e the unborn child the max mum chance for hie Abortion is to be dvocated they believe only n th occas on I case. The use of artificial pneumothora in the treat ent of the pr enant woman his not been generally succes ful but in a fe instanc's there has been a favorable r spon e

In conclu ion the authors state that if a woman with an acti e pulmonary lesion i permitted to nurse her afant she runs the risl of aggra ating her own condition and jeopardizes the life of th child JAME V R I M D

Bermann S E A Tubo Abdominal E t a Uter ne Pregnancy of N n Montls (I b ti di m o t b > bdom; all S m méd 93 toos

Rermann gives the clinical history of a case of t ibo abdominal pregnancy which reached term The patient as then seized with sudden pain and e hib ted symptoms su gesting internal hæmorrhage with pe iton tis At laparotomy a cystic tumor con tunin a livin fetus was found. The uterus was the size of a kidn v and fibrou. The cystic tumor formed pirt of the left tube. The fetus weighed

about 3 kilos and was 50 cm long at lived for two hours There were two distinct placents in the fetal sac the umbilical cord was inserted in one. The hæmorrhage was due to the rupture of vessels in the fetal sac The woman made a good recovery

Ac ording to Bermann this is the sixth case of extra intering prognancy reaching term which has been reported in the Argentine literature

W A BRENNAN

Henrotay J L Ectopic Gestation of Over Four Months (Grosses ectopagu u d là du quatrième m 1) Grif t st 9 3 1 507

A patient 2 years old was admitted to the hos pital September 26 1922 Her last normal men struction occurred in May 1922. In the surgical y ard a diagnosis of pregnancy was made and she was ent home Shortly after her discharge sh was re admitted with a temperature of 38 4 degr es C and a pulse of 120 On account of unsymmetrical enlargement of the abdomen by a mass a diagno is of tuberculous peritoritis complicating pregnancy as made. On further examination the uterus was found empty and displaced to the right quently the right foot became &dematous

Laparotomy disclosed an adherent mas the size of a large fist consisting of the right adnexa. During its I moval the mass broke and a fortid facaloid fluid e caped exposing a cavity containing a putrify in fetus umbilical cord and placenta. Following it I moval a Mikulicz drain v as inserted. On the third day after the operation a fæcal fistula developed This finally healed and the patient was di charged

On the basis of its size and the centers of ossifica tion of different bone a shown by the \ ray the author concludes that the age of the fetus was be t een four and five months As no dama e was done to the intestines in the removal of the mas he bel eves the facal fistula was the result of erosion of the intestine by the charionic villi with subsequent inf ction of the fetal sac

SALVATORE DI PALMA M D

LABOR AND ITS COMPLICATIONS

Manna A Clin cal Stud es of a New Analgesic n Obstetrical and Gynecolog cal Practice (5t di) ln su un nuov ! s nella pat ca o tetr c egn logi s) A & d o tet g c 193 vi 145

Maratrik composed of 1 cgm of hydrochlorate of morph ne 2 mgm of neutral sulphate of atropine and 15 cgm of sedasina gualdoni the latter a synthetic product (benzoic other of dimethyl amino propanol) was used in seventeen obstetrical and three gynecological cases

The youngest subject was 18 years of age and the oldest 40 All of them were in good general health and free from adnetal disease. In the obstetrical cases the pelvic measurements were normal. The injection of one ampoule of the preparation was given in the reg on of the ischial tuberos ty as near the nudendal nerve as no sible

Only one injection vas given except in two cases in which a second wa necessary because the effect of the first injection had practically ceased at the end of half an hour. Yet as rule the dilatation of the cervit at the time of the injection was at least 5 to 6 cm and in one case it vas almost at the leginning of fetal exp list n.

The 'nailg in as compile or at least the pain of the uterin contraction 'as rend red levrable. The sins tion of ringth analgesia were pressure on the shodomen prise on the uterine fundus 'nail tightenia around the body. These ere not painful the dual in of the uterine contrictions as of the dual in of the uterine contrictions as of control phen mens were a light headcade and somnolence of the further under the control phen mens were a light headcade and somnolence of the fuduration.

The time between the injection and beginning analgesias varied from ten to the entry minutes. The duration of the delivery as from eight to thirty, sur hours in the case of primiparse and from five twelve bours in the cases. I multiprize The effect on the fetus was practically mil. The puerperium vas normal. Retinition of the placents and harmor

rhage in artificial del very occurred in only one c se The analgesia as satisfactory also in the three gyne ological cases—del at ion and curettage and cervic lolistics. Sat. Tope if P. M. M. D.

Ch inisse I The S chifra Tratment of Eclampsia Based on its Patlogenesis (I h hed tr tuntp tl gén i d l lmi s) Ir el P toas xxx 72

The author first review 1 the x rous theories of celamp is in 26%. The theory most generally ace pied at th. I time attributed the conduction to the presence in the blood of a toru formed in the placenta. During the last quarter of a century, the theories a lvanced have been numerous 1 ut the spicific cause of the phenomenon rimm as u known. In Germany certain avestigators hie advocated amputation of the b easts to rele e th. condition out he steedingend or m.] I triphin tion and others.

extirp tion of the corpus luteum.

Selheim concluded fr m rather scant experimentation that the toric substance in editing is elaborated by the maning rygland. Hether fore injected potassium ordide: to the breasts of two celan ptes and excised the glands of another. A curresulted

and excised the glands of another A cu resulted Zangmeister who wone of thos advocating trephination believe that eclamps an due to orde ma of the t ssues in gene al and of th kidneys and cerebrum in p tt cul r resulting from iniu y of the capillaries and c using an incre ein th intra cramal pressure and the bloo I pressure He clums that the true state of eclampsia is p ec d d by a cer bral anæmia and that the gradually develop convuls one are clinical ma ifestati of this cere bral hypertension and cortical anxmia Ho e er the f ct that convuls ons de clop sudd nly v ithout premonitory symptoms tends to refute this view

Vollard Hinselman and others believe that an evaggerated angio pasm accounts for the ced maind the chief of the cortical areas

Hofbuser clums that the celampt, syndrome is due to hyperrectivity of the hypophysis and suprarnals and thirt the convul ions releve the cerebral vascular is as mid use to associate to homoses. He believes that the hypophysis plays the important fole in celampsa through its influence on the circulation of the Iram liver kidneys and skin. On the lass of this is sumption and the antagon six action between the hypophysis and the suprarenals on the mean I and I the ovars on the other he recombetives the hypophysis and the suprarenals on the school of the suprarenals on the state of the suprarenals on the careful of the suprarenals on the suprarenals on the creation of the control of the suprarenals on the suprarenals on the creation of the companion of the corporation of the corporatio

PUERPERIUM AND ITS COMPLICATIONS

Soli i S Suppurative Arthritis of the Symphysi Publ During th Puerperlum (Arthre uppu ti a d l! s h.l. pub a in p speri) Pol l R m 9 3 xx cz cht 295

The condition discussed in this article is extremely rate and I tile mention is made of it in the textbooks Sol era reports two cases in detail. The first was th t of a multipara 26 years old. Intense pain in the lower abdomen radiating to the extern I genitals and thighs began the fir t day after delivery and became progres ively worse Active flexion of the thighs was impos ible and passive fl vion increased the seventy of the pain I alpation reveal d extreme tenderness a the symphysis pubis A diagnosis of acute sup purative arthritis of the symphys s pubis was made The treatment consisted first in the intramuscular injection of colloidal silver to combat general infec tion and the applicat on of ice to the pub c reg on Later a pubic and suprapubic inci ion was made and a large amount of creamy yellowish gre n bus was evacuated from the pace of Petzius On explor tion the symplyseal articulation y as found to be open along its ent re extent its bony surfaces vere b re and rough

In the second case that of mult para aged 28 cears the symptoms cre very smile 1 to those in the first. Micr teatment with injections of coll dal silver a large quantity of theke yellowsh pus was executed by histerial inci in of the labulary and none. The condition of the separation are the condition of the separation of the separatio

In conclusion th uthor d scusses the differential ag os is Suppurative rethnits of th symphysis pubs. The surg cal evacuation of the pus may be depth the plot rhyogositar coute or the nught the interlabal sulcus of the utwa. The choice of the rout must depend upon whether the purplient collection is more endent the ward the hypogitim or toward the externing and is. W.A. Bernyans

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Holfelder II and Pelper P The Sensitivity of the Adrenals to Irradiation and Methods of Preventing Adrenal Injury During Deep Roent gen Ray Therapy (De Strahlenemph duckbert der N beameren und Wege der Verhattung von Veb nm n chadru gen in der Roentig mit eft the ape) St &k & p 9 3 xv 1

The authors observed two cases in which following deep irradiation in the region of the pancreas and adrenils great weakness and depression supervened and in the next few 1 eets a frow mish discoloration of the skin appeared \(^1\) hich persisted for two months a proper of the persisted for two months which comes on so frequently following irradia and sare which comes on so frequently following irradia to of the gasticit region to a transfort jury's to the

adrenal Followin these observations the authors investigated the effects of irradiation on guinea pigs The normal adrenals of these animals show a con stant change in the structure of the cortex Preg nancy is associated with hypertrophy an enormous increase of Laryokinesis in the narrow outer layer of the cortex (zona glomerulosa) intracellular vacuole formation in the lipoid containing middle layer (zona fasciculata) and marked pigmentation and cell destruction in the innermost layer (zona reticularis) which in young animals is poor in pigment or lacks it entirely. In the experimental animals an area on the back at the le el of the tenth and eleventh ribs 3 cm wide was irradiated through a y mm zinc filter at a skin distance of 30 cm. Complete loss of hair did not occur in the irradiated area nor macro scopic nor microscopic changes in the irradiated loops of intestine. Of seven animals, one died on the fourth day after the irradiation of two intersecting fields with a calculated do age of 180 per cent Autopsy showed no changes in the skin intestines or adrenals The authors attribute the death to a toxic effect upon the adrenals which had not reached the stage of anatomical chappe

Another in mal which was given a dosage of about op oper cent died after twenty one days during which time it became progressively weaker. In this case there was an extraordinary loss of lipoid in the intire cortex similar to that observed by I eigher in experimental scorbutus in guinea pies.

In three animals given do ages of 120 75 and 60 per cent re petively extra as tion of blood extensive cell degeneration and marked absence of lipoid in the 200 fracciouslata and ret cul 11s were found after from to to ten weeks. In one of them marked pigmentation in the reticularis was present in addition.

In two animals given doses of 110 and 60 per cent respectively there were less marked changes cousis

ting of degenerative vacuole formation in the cell nuclei in the fasciculata extravasation of blood and an increase of pigmentation in the reticulars and a slight decrease of lipiod. The adrenal medulla was entirely unaffected. In one case 60 per cent of the crythema dose caused итератable injury of the adrenals.

the autenals
From these studies the authors conclude that in
clinical cases the dosage in the region of the adrenals
should never recreed half the dosage tolerated by the
intestines
For cases of carcinoma of the stomach
they recommend that the axis of the cone of rays be
directed in a plane extending obliquely through the
body from before upward and backs ard in order
that the adrenals vill be protected as much as
possible from direct irradiation
Hryz (2)

Rehn E The Diagnosis of kidney Function in Surgery (Funktion lle Nierend agnostik in der Chrurge) 47 kes ml d d isch Get il ch f Cl r 1923

The method worked out by Redner from animal experimentation and clinical observations consists of the determination of the and and the alkali exciton. To determine the acid exciton and other of hydrochloric acid in 30 c cm of water are given in the morning before food is taken. For the alkali exciton before the state of 4 are cent sodium bicarbonate solution is given. Five types of reaction can be distinguished.

I Acid excretion normal alkali excretion nor

mal (irritation of the kidney)
Acid excretion normal alkali excretion im

paired After the administration of sodium bicar bonate the acid values approach the neutral point (nephralgia spasm) 3a Acid excretion impaired alkali excretion nor

mal (p) elitis)

3b Acid excretion impaired alkali excretion nor

mal (pyonephrosis)

4 Acid excretion impaired alkali excretion impaired acid values approximate neutral (renal

tuberculos:)

5 Acid e cretion impaired alkali excretion negative renal stasis (grave p) clonephritis)

A comparison with the functional tests used to date favors the new test. With larger experience it will be ome of importance in the differential diag nosis of renal diseases. STETITY-ER (Z)

The patient was a 40-year old woman with a tumor in the left side of the abdomen extending

The rr r tile is as due tipart to the lrg s till tu r (th icr ziti ni n tal a) posile in u h W V I RENNAN

It r; trt. I he lyou us the lyou us the lift of the lyoung lift of the lift of

The author 1 al br too s and experiments tenl 1 bot that a tell you reannot be recognized and tenl 1 lentity some of thee a du till 1 lentity some river and a ke du till 1 lentity some attack to the recognized and the some attack to the recognized and the some at the work of the recognized and the some at the work of the recognized and the some at the work of the recognized and the recogniz

The treatment is n ph i m b cause as a rule the involved k dn y i of l til l e l ANGENHEI i (Z)

Huebner Tle Early Day f Tuberculo s of tle Kidney (l h 1 l N t b k l) 47 f d d l l G ll h f Ch

93
Fally diss is facilit ted by the progestic tend any of the infituation of Scindivitation culor in 6th bid a wall delp riv Inthe majority of the control to sdig ness can be made by victory Pinglebit stievment mass follow

Ken I sg s pyuna he naturi i illammation ulc r t on and d fo mity t I p d hole d's plac ment—at th u ete al o t m

Changes in the bl dd hyperamic island o the mobile p ts nodul s lenticular ulc s typical tu berculaus ulce g anuloma

The first changes s liv app at the ost um of the tureter Th is d pic colour and and brechard by shortenin of the u eter a d is stretched. The belief that tubercul s spead from the urteral ost um to and the tigone of the bladd section outs. It next invol the ert vand the mobile parts. This is plained by the d trib tion f the hymph vest of When the lymph essels are jected.

with B if n bl e the trigoni remain free from the
due. The agreement bet een the my ction tests a d
the agreed of vessed tuberculosis shows that the
tubercul six years as carried through the Mingh
channel. Therefore freedom of the tr one from
the mingh the my control of the my control
to give 1 and the presence of submiction modulation
th vertex and in the mobile 1 arts is sign of tuber
culo:

Sterrit. 18 [2]

Ire tenberg Tuberculo is of the Bladd r a d kidn y (Blase 1 \ nt b kules) 47 ber am I d d 1 h G ta h f Ch 1923

In the roenig in picture the normal bladder should finte regularity in outline. In the tuberculoulladier an irregularity in shape in evident on the side involved.

In the d cussion of Freudenberg s pap r Actur For reported on 130 cases of rend tuberculous Tiero va associated in Nement of the bladd ria of it of mal gen talia in a per cent. The immediate of it of mal gen talia in a per cent. The immediate bladd in the state of the state of the state of the per cent. In some of the cases the cure has pers side or fifteen vars 1 nay per cent in tur tons servire h n timal. In half of the cases with v sil tuber cured follo ing the operation. One to man operated under the state of the state of the state of the state of the point subsequently went through three normal pre-

I FNER stated that though the diagnoss is difficult an exploratory incis on should be made only inthe most severe cases. The postoperative treatment is of the greatest importance but local treatment of the bladd is should be giren oil when after from three 1 six months there is no benefit from the operation.

Wossmo stated that he has recently come to better unde standing of the ind cati as for tubercular treatment. This is in licated only in the early stage of the infect on and to render cases of bilateral tuber culosis on ble

According to RARTH the e diresults re influenced all eastly by the remaining visual tuberculosis. Only about one fourth of his patients remained u cd fo as I in as neteen years and only one half vere ben fitted or e four this of them ded within the fitter 1 follosing unital rall in pirections) presancy i well borne.

REDER port da case of tuberculous horseshoe ladney half of which he removed. The patient was still ell after t enty years

VOLUCER warn d ag nst exploratory a cision of the kidney stating that he had! st to cases from miliary theoretios sidne to this cause. He believes it is better to perform a nephrectomy even if nothin is found at first than to see the for hidde foot.

lo souggest ng n phralg a n wh ch functionale am inat on nd catheterization of th uret rs failed to

reveal the t ue nature of the condition

Rose pointed out the much more frequent in followment of the upper pole of the kidney due to the pressure of the eleventh and twelfth ribs

CASPER stated that he performed an extripation in 170 of 700 cases of renal tuberculous and that notatility in the last sevently was only a per cent Most of the patients not operated upon succumbed in cases in which because of marked contraction of the bladder catheterization of the ureters is impossible the secretion of each kidney may be collected separately by exposing the kidney and clamp more off the ureter.

ROTHSCHILD stated that the conception of early operation is relative and that it is necessary to arrive at a definite understanding regarding it. He warned against always regarding the nodule mentioned by Huebner as due to tuberculo is as they may be found also in normal bladders

May brought up the point that in the subcutane ous tuberculin test the onset of pa n is not to be

interpreted as a positive reaction

Hofmeister advocated removal of the kidney fol
lowing a diagnosis of renal tuberculosis even though

lowing a diagnosis of renal tuberculosis even though the closed off buried foci are not found HILLMAN reported a case in which uncontrollable

bleeding was the first symptom

KYEMINEL urged the establishment of the drag

nosis before exposure of the kidney. Tuberculosis of

the bladder is often cured by nephrectomy, and in

many cases the internal administration of potassium

nodde and local treatment with phenol solution

noddorm etc give relief. General treatment for

tuberculo is and injections of tuberculn are also

undicated. If these are not successful extripation of

the bladder and transplantation of the urefers mo

the bladder and transplantation of the urefers mo

the bladder and transplantation of the urefers mo

the state of the state of

HOEBBER stated that he regards nodules as positive evidence of tuberculosis only when they are as ociated with other suggestive signs

STETTINER (Z)

appa The Tecl nique of Nephrotomy in Cases of Large Irregular Stones (Te hn qu d la réphr t me d n le gr cal uls alf me) B il et m m Soc d cl d P 9 3 l 5

An extensive pyclotomy having been made the stone is pushed toward the periphery of the kidney with the inserted index finger and a second incision then made do n to it. In this way its extraction is fac litated and the chances of its breaking and escaping are minimized.

In order to pre ent infection of the sutures of the kindry, the author passes them only busic through the parenchyma. The details of this technique can not be presented in an abstract. Thailly instead of placing a drain in the parenchymal incision where it may cause severe harmorrhage on its removal be drains the pelvic opening.

In discussing the method described Marion stated that he found the primary incision and subsequent drainage of the pelvis very satisfactory in cases of large stones but impossible in cases of stones not

cau ing distension of the renal pelvis. In two cases he found the method of suturing not sufficient for hemostass and therefore although it i theoretically good he believes it must be used with the greatest caution.

CHEVASSU stated that several small openings are preferable to long nephrotomy incisions from pole to pole as the latter are dangerous. If there is good function on the other side he prefers to remove a ladney containing a large store as usually it is practically functionless. Rupdur MARY MD.

Summers J E The Transverse Incision in the Surgery of the kidney \ b a k Stu M J 1923 \ \ \ 1 \ 3

Large kidneys are removed with difficulty by the u ual lumbar inci ion. The transperitoned incision, along, the I nea semilunaris may be used. Morris employs a retroperitoneal lumbar incision in addition to the transperitoneal incision. The posterior open ing. 1 used for drainage if this: indicated

The author use the technique of Brazy who mod hed that of Pean. The near ion is transverse begin ming a little below and behind the palpable end of the eleventh rib and extending not quite to the midline between the umblicus and the ensiform. The muscles are divided plane by plane with great care to avoid the nexves. The peritoneum; not entered vs a rule the free end of the eleventh rib points to the pedicle.

This met ion leads directly to the body of the kidney and allows much better control of the upper pole. The pedicle 1 exposed on its anterior surface and can be secured before the kidney is removed Tumors may be fred more easily than with other technique and the inci ion can be turned into a liparotomy on either side. C D Picksexit M D

Ekehorn G E ploratory Expo ure of the kidney on One Side Before Nephrectomy on the Other in Advanced Cases of Renal Tuberculosis (M e E fahru g n b treff explorative I ileg ung d r h e utd a n S te or h ph ektone utd d r a d ren Set 1 o gesch attenen lælle v n \ teknologies 1 be kulo e) Zisch f a Chr 1023.

Exploratory exposure of the opposite kidney in twenty seven cases demonstrated that nephrectomy as possible in twenty but contra indicated in seven In one case bilateral catheterization was possible but the urine from both kidneys containe! tubered

bacill. In five cases only one ureter could be cath eterized in sixteen neither could be catheterized and in fi e even cystoscopy was impossible. The author always performs exposure and neph rectomy at one operation and usually closes the

rectony at one operation and usually closes the wounds on both sides completely without drainage As a rule heal ng occurs vithout complications In advanced bilateral cases the final results are

not of course ideal Of fourteen patients re ex mined the condition of four who had been subjected to nephrectom; to off c nine and twelve years p eviously was found improved Of seven on a hom only an exploratory expo ure was done six 1 ed soon after the operation and only one lived f rth ars

The quit on as to whether p rsons it hadvanced it literal r and tube rulo is should be operated up n the auth r ansivers n the affirmative. They read to be not present to the state of the

Neumann A Ca e of Doubl Kidney Remo ed by Operation (E Fall p rat if tr Dopp 1) ler/ dl d G ll / f Ch M w

VOLUMENT (Z)

\ umann s pat nt sought treatment because of lamaturia. The upper acces ory portion of the ren o ed kidnes showed the typ call p cture of hyd openhrosis and the lower portion showed harmorths.

gic nephr tis nd py litis

In the dis us on of Neum mn s report Feddomy among others called attent on to the fact that in such cases only the access ry portion of the kide 3s und be resected as only this part shows the spas m dic chan es. The hemorrhagic neph it in the normal portion of the specimen is und ubtedly a normal portion of the specimen is und ubtedly a normal portion to the specimen is und ubtedly a portion to the maining portion will soon become normal.

Nikol & I A M The End Results of Tran planta tion of th U tes into the Inte tin (D D rreck t der U trt pl tt n dr D rm) \ cy Ch 1 ch g u 649

in certain d serses of the bladder and especially in ten we operations if rearrinom of the uterus with molement I the bladder the transplantation of th ureter into the intest ne is the only operation which will render existent to I rable. The dange is of an ascending pelonghnitis are not very great and are e critically of e come. The author reposit three are critically of e come. The author reposit three the which were traced for many years. All of the c pair into suffered from post special to the pair into suffered from post special engineering ultimately ee. de

Th fir t case was that of a 22 year old woman with a vesico aginal fistula in whom the inflamed adnera were r moved d ring the I parotomy and bith ur t rs w r tran planted into the intestine according to the method of Th in fi

The second c s was that of a noman 45 years old in whom the uterus the adnexa and the greater part f the adhe e t bladd r and urete s we r moved

because of an advanced carcinoma of the uterus and the ureters transplanted into the utestine. Five years later when the patient rentered the choice we the treatment of an ingo soal hero a the under we regularly passed per rectum several times a day separately from the stool. During the second laparotomy the stee of implantation of the uretien into the signoid fleurie appeared as small elevati is without any other change. Recovery one and the control of the control of the uretien to the control the implanted uretical and objected. Untail size valled nothing abnormal and the patient statel that she fell with the control of the control of the control of the state of the control of the control of the control of the control of the valled nothing abnormal and the patient statel that she fell well.

that she felt well
The thrid case was that of a woman 35 years wh
in a hom the ureter was accidentally injured during
a hysterectomy for carcinoma and was transplanted
into the intestine. When the patient was reexam
ined after two gas a he stated that she had felt well
and there had been no urnary disturbances suid
three months previously when carcinomatous in
volvement of the bladder h d developed. In this
case also the good function of the transplanted ureter

was demonstrated on rectoscopic examination. These cases show that the transiliantation of the ureters into the intestine may be well borne for year that the subjects become accustomed to the condition and feel well and that urination and defacts on a e carried out separately. Urinalyses showed no just and only a slight turbility from allowing.

SCHAACK (Z)

BLADDER URETHRA AND PENIS

Bumpu II C J and Foulds G S Grad al Emptying of the O r D stended Bladder J Am M A 9 3 kx 8

It s generally recognized that the removal of the u me from a chronically over distended bladder is often followed by untoward symptoms and even death If the bladder is empt d rapidly and com pletely at one t me th sudden reduction of the intravesical p es ure results in immed te con est on thr u hout the urmary tract with resulting cedema and hamorrhage which may he so severe as com pletely to suppress renal function by increas ng the p e sure 1thin the renal capsule to a point incom patible with glomerul r and tubular function Even though the process may not go on to complet suppress on of urine the congestion and cedema make the u nary tract fertile field for infection a com plication which is borne ery po rly by this groups of patients d s the undoubted cause of many of the fatalit es

O Connor has shown that concident with empty in the bladde of residual urine there is a deed of fall in the blood pressure. Thus to the difficulty of filter a urine through a congest d renal parently as added the lowe up of the pressure belt mixing the who hastil nurther embryane set low resident with a stall nurther embryane set low received by a patients the drop in the blood pressure that has patients the drop in the blood pressure as the set of the set o

If a procedure could be adopted that would delay the period of falling blood pressure and so prolong it that the tax level vs. not reached for several days instead of in the first forty eight hours it should prestly, and in kerping at a maximum the amount prestly, and in kerping at a maximum the amounty tract is adjusting itself to the new conditions of press wit in 1920 km 7 walenburg described such a method of empty ing over distended bladders without at any time reducing the intriviscal pressure sudd nly. This method has since been used at the Vlayo Chinc in the treatment of eighty three patients. The results in twenty of these cases have been previously reported.

A soft rubber earlyies an introduced into the blad A soft rubber earlyies and a clamp is attached to the distal end to present the loss of utine. The catheter is then connected to a rubber thu filled with water which leads through a simple manometer to a receptivele usually an ordinary enema can placed about 6 ft above the floor. The sistem having been completed the clamp on the catheter is released and the pressure in the blad ler read on the manometer the receptacle them being los need so the level of the floor of the live of the level of the floor of the nanometer. The ur me ill then just trickle over on deep inspiration and

the entire urinary tract will continue to function

under its usual pressure

Sudden cedema and congestion incident to the removal of even a small amount of urine has not occurred. After rest in bed it is observed that the oignal bladder pressure as registered on the man ometer gradually falls. The level of the receptacle may then be suitably to even dwith cast to keep may then be suitably to even the continuous though lowering pressure. Under these conditions the time of employing the bladder may vary from two days to a week usually ho ever it takes from three days to a week usually ho ever it takes from three days to a week. Usually ho ever it takes from three varieties of the days to a week usually ho ever it takes from three days to a week.

Seventy one of the eighty three patients treated by this method had being in pertrophy of the postate deven a carcinoma of the prostate and one a unrelimitation consideration. The oldest carcinoma of the prostate and the postate of the pertrophy of the property of the p

In all of the cases the bladder was d stended sufficiently to be demonstrated by percussion or palpation above the level of the symphysis pubis. In

forth six it extended as a typical pyriform tumor reaching the level of the umbilities. The renal time tion was generally very poor the specific gravity of the urine was low averaging 1 of a the average out put of phenoisuphonephthalien in two hours was 10.50 per cent and the blood urea averaged 9.5% amm for each 100 c of blood. The creating estimation varied between 1.5 and 5.7 mgm for each 100 c cm of blood the usual amount being from 2.

to 4 mem Careful records were kept of the diastolic and systolic blood pressure the intake and output of fluid and the intravesical tension Blood urea and creatinin estimations were at first made daily later twice a week. These data have been charted and typical charts are reproduced. The charts show that the critical period is at the time the blood pressure has reached its lowest point. The longer this is delased the greater the amount of urine excreted and the more rapid the fall in the blood urea. Thus if at the period of minimal blood pressure the urine output has also markedly declined and the urea is rising the prognosis is very grave. If however with the falling blood pressure, the urine output is sus tained and the urea i diminishing the prognosis is good arrespective of the amount of urea

In almost all of the cases the renal function im proved the average phenolsulphonephthalem out but in two hours it increased from 10 50 to 40 42 per cent The blood urer average al o fell decreas ing from 95 85 to 52 for each 100 c cm of blood A succe sful prostatectomy was performed on forty two patients prepared in the manner and supra pubic drainage was established in nine Of the eight; three patients on whom this method was used four died One of these deaths was due to perstanitis following rupture of the appendix and another to prostatic abscess in a patient with ad vanced carcinoma of the prostate The 2 5 per cent mortality in the remaining cases indicates the effectiveness of the method described and demonstrates that it is worthy of more universal adoption

GORDON S FOULDS M D

Bronnikoff M N The Rapidity of Stone Forma tion in the Bladder (Zur Ir geuch de Shell g k nt der St nb ld g nn der H rnbla) No y Chr trek 92 n 701

In contrast to the etology diagnosis and treat ment of vesical calculi the rapidity of their forma toon has received hitle attention. In the literature the author was able to find only five case reports in which this was mentioned. In one of Bronnikoff's cases that of a patient who

was operated upon twice it was possible to deter mine that a large stone circh was removed by suprapuble section and weighted when died 66 gm had formed in a period of three and one half year. The nucleus was a blood congulum. In the cases reported in the literature in which the time was noted the stone developed around a foreign body

Scharce (Z)

Squir J B Segmental Resection of the Bladder for Neoplasm S 12 Gy & & Obst 19 3 xt 1 170

The author belie es that we have not yet ad vanced beyond the experimental stage in the use of radium and deep \ ray therapy in the treatment of bladder neoplasms and that in the management of ves cal care noma surgery must still be regarded as of first importance

As better results were obtained in the treatment of gastric cancer after the type of operation was bas d on a knowledge of the lymphatics of the stomach better r sults will probably be obtained in vesical c remoma when operation is based on a knowledge of the lymphatics of the bladder Squier describes the distribution of the bladder lymphatics and their dramage toward the inferior bladder segments. As the removal o all the sources of lymphatic extension in cases of bladd r mil gnancy would be impossible the operative technique devised by him and used in a set; s of cases is a compromise bety een the ideal and the p ssible It const to in a semmental resect on of the entire thickness of the bladder dep nding in its direction and extent upon the position of the tumor

and the chance of recur ence in that area Squier has found that cancer of the superior and lateral wall segments recurs more rapidly than that of the ureteral segment and necessitates extensi e removal of the bladder wall toward the base Gro the just I eneath the prevencal space also show

tendency to rap d recurrence. For the varying s tuations of malignancy he giv s the following I nes of resect on which in most cases will mount to a removal of pra tically one half the bladder

When the tumor is on the interior surface the bladder is bisected late ally and acised down to the internal sphincter When the tumor involves the lateral wills the bisection is made from before backward in the median line and the line of bladder exc on made just above the ureteral orafice or as

in tumors involving the ureter In the growths involving the ureteral segment the bi ection is the same but the line of excision is just back of the internal sphincter with transplanta t on of the ur ter Turn rs occurring at the fundus n ar the insertion of the urachus should be remo ed with the urachus and attached dvent tious tissue

mass peritoneum et up to the n vel Tumors occurring in that part of the fundus which covered by per toneum should be removed with the attach d per toneum

Tumo s n the ureteral s gment sh uld be re moved with the ureter end attached and the ureter divided only after the mass has been entirely f eed

and h ngs from the ureter as a pedicle Of a series of seventy five patients treated by the by the method of segmental resection tw nty se en di d in the hospital after the opera tion twenty ha e re urrences or extensions by meta tasis and twenty eight are without signs of recurrence f m two to e ght years after the opera tı n

HE BY L SANFORD M D

Joseph E A Case of Total Exturpation of the Bladder (E n Fall von Total t rpation der Blas) Ziscl f ol Clr 19 3 En 353

In the case of a 51 year-old man a tumor close to the right ureter was treated by thermo- and chemical coagulation (the latter by concentrated trichlora cetic acid) Two months later a small recurrence v as removed in the sam way Six months later a second recurrence had developed and the left ureter had be come involved. Because of bladder hæmorrhages, a suprapub c fistula was then formed Subsequently th catheter was replaced with a broad drain

One year after the beginning of treatment on account of unbe rable pa n a bilateral pyelostomy was don and a drain placed in each L dney pel us to dr in the urine into a portable receptacle. There after an irrection with 1 1 000 silver n trate was given twice ave k One month later under lumb r anæsthesia total extirp ton of the bladder and prostate was done through a T inc ion with sever ance of the ureth a and u eters The peritoneum which was torn a sa closed with adhesive strips only

a small opening being left The wound healed but the patient died three months later from metastases and a local recurrence In the author's opinion the relef from the pyelostomy was only temporary because the carcinom atous bladd r continued to produce se ous secre t on being stron ly irritated Total exti pation of the bladder is usually done too late as it is not until the advanced stages of the diseas that the patient will consent to it FRATE (Z)

Jastram M Th Treatment f Injuries of the Mal Urethra (Zu Bh ndl g der \ lt u g der m nlhn H oct re) D t che Ztsch f 19 3 clex

The indication for an immediate Bouton ere opera tion in cases of typical rupture of the urethra is generally recognized Op mons diff r only as to de tails such as the method of suturing and the after treatment (permanent catheter the use of bougies etc) Koen g s objections to the use of the perma nent catheter are not shared by the majority of surgeons In cases in which the injury to the tissues is not extensive expectant treatment with a perma nent catheter may be given. Then if the progress of the condition is favorable a urethral incision will ha e been avoided. In all cases in which a retent on used the bladder must be irrigated once or twice daily in order t prevent cystiti impossible to p ss a rubber catheter a metal cath eter (M reser) m y be left in place for a few days

Primary circular sutu e of th torn ends is not always necessary Koen g and Pels Leusden suture only the anterior wall of the urethra allowing the posterior wall an I the perine I wound to remain open. In cases of marked infection, this is all avs necessa y The most favorable cond tions for heal ng without stricture are established when it is pos able to close the permeal wound over the circularly

sutu ed urethral wound

Strictures may be fully established within a period of four or five weeks Fourteen cases of impermeable stricture admitted to the Koenigsberg clinic in the past few years were treated by external urethrotomy resection and suture The mortality was high 35 7 per cent The cause of death was almost always urinary stasis with subsequent infection A prepara tory cystotomy is indicated on this account if no other

The article is supplemented with five very instructive roentgenograms of urethras filled with opaque GRAUDIAN (Z) material

GENITAL ORGANS

Perineal and Suprapuble Prostatee tomy and the Cho ce of Operation in Types of Cases C I for sa State J II 19 3 1 371

The statistics of many operators lend to the con clusion that perineal prostatectomy has a slightly lower mortality than suprapulic when each is per formed in the most skillful manner after the most careful preparation

Recently Day has been subjecting patients who are good ri ks to a suprapubic operation performed in one stage with bladder neck suture plus the u e of a hamostatic bag or packing or performed in two stages if the catheter is not well tolerated if the urine is persistently ammoniacal from infection by urea splitting organisms or if stone is present Packing the bladder according to Freyer's method after the two-stage operation is occasionally resorted to and is entirely dependable to control bleeding but causes considerable tenesmus

In cases which are poor risks he usually operates by the perineal route employing caudal and trans sacral or even gas anasthesia. This method allows the patient to get about very soon and is less apt to be followed by pulmonary cardiac or renal complications

The author's opinions are based on more than 200 prostatectomies 20 per cent of which were done by the perineal route. The mortality in his cases of suprapubic prostatectomy has been 4.3 per cent notwithstanding the fact that until recently all the poor risks were operated upon by this method in two stages

Day's conclusions are as follows

I Sixty five per cent or more of patient requir

ing prostatectomy are good risks and have a reason able expectancy of life of from four to twenty years 2 The operative mortality rate of either type of operation in this selected class of cases should not

be more than I per cent 3 The choice of anæsthetic is of great impor The mortality has shown a decided drop since the introduction of caudal and transsacral or

gas anæsthesia for perincal operations and of spinal anæsthesia or caudal and transsacral anæsthesia plus field block for suprapubic operations 4 From 15 to 35 per cent of any given series of

cases are poor risks. In these the mortality of the

suprapubic operation is probably twice as great as that of the perineal operation. In cases of poor risks the life expectancy is not more than from one to three years and the patient must be satisfied to take the chance of a poor functional result

5 In the case of the younger and sounder man with a reasonable expectancy of a considerable number of years of life and of vitality sufficient to withstand a more radical and precise suprapubic enucleation with sure pres rvation of sphincter con trol no diminution of sexual power and no risk of a urethrorectal fistula the suprapubic operation should be done. The suprapulic operation is not ant to give poor results but if such results occur they are easily corrected Poor results following perineal operations are usually irremediable

Louis Gross M D

Maxemer S R and Waldschmidt R II Tuber culosis of the Ep didymis 1/1 s to Med 923 402

In ten (66 per cent) of fifteen cases of tuberculosis of the epididymis studied by the authors extra genital tuberculosis was found before operation, and in the same number of cases the condition was be lateral Pain was present in thirteen cases and the symptoms began in the lover pole in twelve cases The general condition was improved after the opera tion in eight cases and unchanged in seven drainage promotes sinus formation primary closure should be effected even in cases of a ruptured tu berculosis abscess THOMAS F TINEGAN M D

Anglesio B and Baroni G The Grafting of a Vein in the Vas Deferens (Innesti e si sul defe ent) 4 h st l dich 1923 vi 277

The authors have made seventeen autoplastic grafts of the femoral vein into the vas deferens of the dog to replace resected portion of the duct ranging from o 5 to 2 5 cm in length The vein transplant was fixed by sutures The results of these experi ments are summarized as follows

I The autoplastic venous transplant substituted for a resected portion of the vas deferens always maintained the continuity but never the patency of the duct

2 The duct 1 as first closed by probleration of its mucosa especially in the vicinity of the points of Later the epithelial proliferation was infiltrated and ultimately was replaced by connec tive tissue from the submucosa

The venous wall of the graft rapidly lost its endo thelium and muscular tissue but the elastic tissue resisted much longer The disappearing elements were replaced by connective tissue. The vascular lumen which was occupied at first by amorphous and crystalloid detritus and red cells later showed parvicellular infiltration at the periphery and be came filled by a young connective tissue rich in cells and vessels which had its origin in the sectioned surface of the stumps of the vas and transformed it into a fibrous cord W A BREIDIAN

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Ashhurst A.P.C. Br. mer R.S. and White ()

Cystle Di en e of the Bones A Study of Filteen

Ca es Ach S. g. 19 3 v. 66

The authors report fifteen cases of cystic disease of the bones the only common feature of which was the pre ence within the bone of some process resulting in rarefact on absorption or destruction of bony to sue with ext ans on an I thinning of the cortex The cases nelu i d ostcomvelit s of the shaft of the humeru res mblin existing diagraphone cyst in the tibia a tubercul us cyst of the ulna f brocystic o tata of the f mur devel sing after operati n for knock knee f brocy stie osteitis of the t b a leveloping fler operation f r bo leg a bone exst involving the upper end of the hun rus multiple cystic osteit (case) myelomy of the humerus (giant cell sare ma) giant cell arcoms of the erte bræ myeloma of the head of the tila myeloma of the ra hus myelo d sarcoma of the humerus cy tic changes in an e-ostosis of a lesser trochant r of the femur ani cystic I ea e of the t ral scaph d The causes were progenic bacterial infection tuber culosis sythilis and unknown cau s

In the dicuss in the authors state that the acute form of hematogenous stapplus occre to fit ofton of bone produces typical acute of om hits. The thrane form is rarely altered by equestration but often causes marked thickening. Destruction of bone is usually slight. In such eas is the condition sometimes: Less the form of Brokes is the Valar koys abseess or bone selers. In the subacute type a I finit cystic area may led Ip. Bone tult if usos man all one of a cistic nature.

I thologe xaminati n is necessary for the diagn
sis

With regard to synh his of tone the authors state

th t they have recognized only two types of ey tic les ons due t this cond ti n-cysts occur ng be neath the periosteum and cysts formed in shit bones and in the ends of 1 ng bo es in lereditars syphilis

The true cause of bo livst ophies is oft n un

kno n In s me ca es t is a rem te infect on or an abnormality of metabolism
Other c uses of batte disease of he c are certa

Other c uses of vstic d scase of bo c are certa

Lovett has pointed out the impo sibility of differ entiating osseous syphilis osse i tuberculosis and the ne oste myel its by means of the roentgen ray and Bloodgood states that an X-ray diagnosis is impossible especially in cases of cysts guant-cell tumor and c ntral sarcom ta

JOHN MI CHELL MD

Case 1 Th patint was a woman who com plunch of pun enlarg ment and progessi e dis abits of the knee of t o m oths duration At the time I examinat a the kne cont ined fluid and a very tend r point v is found on the inner side Movement can ed violent pun I wenty cubic cen timeters of fluid were a pirated and gonococci were demonstrate ! I wo days later nother aspiration of 20 c cm was d ne and 15 c cm of Nicolle s serum we einjeted. Two dies Lit recem of flu dwere withdrawn and is cem of the scrum injected. The temperature was to degrees C during the next to days an I then oscillated between 37 an 1 38 degrees C for some time Six days after the la tanjection the pent neous pain disappeared but the joint was still painful on movem at By persistent effort o er a long per od m bilization as obtai ed. As a result exten ion is compl to fle on is more than

a right angle and the pat intis able to walk Case 2 The fatient a a pregn nt woman's th gonorrhoca and suphils and a platic ankyl sing type of arthriti of the right weilt with infl minition of the extensor ten ion shorths. One cubic centimeter of fluid which was parated theil from the peri riscular sp ces with great diffcult sho ed gonococci light livs liter 2 ccm of Nicolle s serum vere injected into the just tendon sheath and peri arti lar structures and 18 c.cm injected intramu cula ! Tw di slite i cem ere in sected into and around the soint and 17 ccm int the mu cles lie I vs later 3 c cm were injected into an I around the wint Alternat gamel oratio a d aggravation. I the swelling and pain occurred Lersistent mas g and mobilization falled to pre sent almo t complete s rist anks to is five in 11ths later I ron ton and supin ton ands ie I gree of finger movement re c creel In the author op ion the treatment fell the beause e b caus of the diffculty of intr d cing serum into the tight W TRC BUR T M D wrist joint

Vate nahm T FurtherE p el nee in the T e t ment of Arth itide with High Do es of Radi um Em nati n(W t re I f hru g bet d Be h H g Ath the mt h D

Rad m m t) W d Al 9 493

Tor the transment of the one arthritid's (p. mary

nd s con i ry forms of chron c rheum ti poly arthrits and a thritis d i rm n) the uthor re ommends the u e of high doses of r d um em n t on in the drailing water (300 000 to 1 000 000 mache units) In the majority of cases so treated typed inclear leactions appeared With the appearance of these focal reactions the dosage should be reduced No harmful results developed when the dosage was increased slowly and carefully. The histories cited demonstrate considerable improvement from the use of high doses 70 per cent of the cases being favor all ways of the cases when the dosage was allowed to the cases being favor allowed to the cases when the cases were allowed to the

Schubert A The Etiology of Dupuytren's Contracture (Die Actilige der Dupuyten hen Contracture) Derisch Zihf Ch. 923 clyx ni 362

Dupuytren's contracture begins in the fourth and fifth fingers in the zone of the ulnar nerve Schubert's opinion it is not an inflammation of the palmar fascia as maintained by Ledderho e and trauma is not an etiological factor Mckrogius regards it as the result of degeneration due to an atavistic arrest of development in the muscle tendon tissue of the future aponeurosis Schubert accepts the neurotrophic theory. The contracture occurs in all forms of ulnaris injury Against the neurotrophic theory are the stati tics from the war collected by Coenen which do not show a single case of Dupuy tren s contracture among thirty seven injuries of the ulnar nerve. However this proves only that such miuries are not always complicated by the contrac ture and that in addition to injury there must be a constitutional tendency to connective ti sue prolifer ation 1 ORSCHUETZ (Z)

Coulland Per o teal Osteosarcoma Arising from the Lower End of the Fermur Fa lure of Deep Radiotherapy ID riticulation of the 11th of the Country of the Cou

In the case of an emacuted anamic soldier 23 years of age an attack of pain swelling increased local temperature and moderate effission in the local temperature and moderate effission in the the leg. Within a period of a few months the knee became double its no mal age. The swelling in volved the low or half of the thing hand ceased abrupt yat the tubial plateau. The skin over the tumor was brown and traversed by varicose ves ets. I ressure over the femoral condyles was painful. The log aboved moderate ardema and the inguinal glands along the proposed profession of the lower third of diffuse periosted proliferation of the lower third of the femur—an osteosarcoma.

As four X ray treatments of si hours each we e without effect the author disarticulated the hip under preventive hemostasis by Momberg's method. An extensive incision permitted removal of the inguinal glands. The wound remained open for a month and drained a seroprutelent discharge. Ulti-

mately the patient recovered completely gained to kgm and was able to walk well with the aid of a prosthes: The pathologic diagnosis of the tumor vas sarcoma and that of the inguinal gland in flammation.

The author has used Momberg's preventive harmostasi successfully all on three other cases of disatruculation of the hip. The blood pressure taken during the operation shoved no decided change upon removal of the constriction

In 1015 at Verdun Savariaud performed under preventive hæmostasis fifteen di articulations of the hip and forty six amputations in the upper third of the thigh. The only fatality was due to asphyvia caused by the aspiration of vomitus

Broca has done four successful da articulation of the hip for osterosarcoma by the formation of an anterior flap and transfition without preventive hemostass. The muscles were not resected No local r currence develop d but all of the patients died from metastases in the lungs or liver. In the treatment of sarcoma of the femure Broca and M glavic predefactive chips on the lips to which courrence most often develops as far as the third bone concept of the develops as far as the third bone come of the properties of the develops as far as the third bone most often develops as far as the third bone renew most often develops as far as the third bone most often develops as far as the third bone may be compared to the form the compared to the control of the form was well seven vears after the operation and an other who had sarcoma of the thigh muscles was still well at the end of three years.

Lapoutte emphasizes rather than the extent of the amputation the importance of operating before general metastasis has occurred. In ten ca exhormant found ever satisfactory verneulis stech nique of femoral ligation with hemostasis layer by layer. Walther experienced no difficulty in six hip disattivulations done vithout preventive hemostasis.

Savariaud considers preventive hemostasi valuable in at spical operations for gas gangerne chrome suppuration tuberculosis malignant growths and operations upon cachectic subjects. It is especially valuable to the mexperienced operator

WALTER C BURKET M D

Athausen G The Course of Koehler's DI case and Perthes Disease (Der k tikhetty (2 be der Kohle h n Krakh t dr M tat ts 1 k pf hen und d b de P rth s hen K a khet des liu tik pf) 2 laist f C 1 19 3 1 553

The spontaneous fractures of the metatarsal copplys sin Noehler's die ase are secondary to a total necross of the bone and marrow of the epiphy so. Consequently nothing is shon hy the N rav in the first stage. Regeneration begins in the period team of the metaphys and the connective tissue grows into the marrow spaces of the dead epiphysic at the boundary between the joint and the epiphys and cartilage. The weight causes an impression fracture on the plantar joint surface and the N ray shows flattening of the cipphysis and thekening of the disphysis. The connective tissue also grows.

from the metarline I matter toward the diad enings is aft r breaking through the er charal cartilage. This s juestrate the latter t tall and than sits slipe Ther It (the troces i o rthrite d rmans with a ml re lung a in the synovia and rel ti | bt injury t the pert cartifae

Hejath I gree sult the ! a cithe hip are very si lit. To dat the c e fifese erobsedne erithen Intlinua m entire mini m with unit ! willing etc n Instract?

SURCERY OF THE BOXES TOISTS MUSCLES TENDONS PTO

Ill & O teotomy (I 1 h 111 1 71 h f orth p Ch 12 1 1 211 et t

Hinge steetorny i th cur il r ar cutt ra f a bot as latin if I from teetil ear cutting iltanasmoothly ury 1 ut at nitel ecole reache I fr m ne I r il nebla Mar truct ! sh wata nillu r t Ile ut ei wills en bem elly lyrar lange liter a so of tent of t tof tentt the principal to tent to the new toront to the tent to t saefth In rith i fth ert ment Il last I pas nt a wilst a cm bro inth rise 1 4 Th grat 1 dith ftl s 15 1 Fit t 111 Instruct 45 mil mtr ltcile taken at et el teil 1 1 1 ie f et in limite only tel fet it is nie rectel ift ret n flag g i tten et 1 theotite illet militation in the state of th be creet 1 nlst reluteh s œ 311

Winth mil i I stert m ed brom ing a clu lt th na mm the wel urf c ar in tim t tatth It nin tion Ith is of the funes set tool nate of the hard of the hard of the hard of the hard of th proving the heagh of me in nter tinithing t niber t t f FI

III cl 5 and 5t raberg \$ The Tre tm at of Cironic Def rming J int Di et (k ti h Amk Frift h t 0 1 1 5

The result of prooct the py renter n raging In m n in ip ent es mpro m nt could be n t 1 lut u s r 11 lee es mu the nule dwth great a fratrial tar 1.6 (I peculty it ut ply that is ve cae f thriti lef ra the wreerm r I stingfree lw korm nth Uft na pr reult r n t l ft tl f wer p ratin whose the 1 postiniot no sen n unfotutly hw the left fr nly

sh it time. Bes les psychic influences feser plays an implifiant part. The prox king age its calse a sener ler tal le change through a ren ral reaction

So at rectabl d tence was n clin the act n fina u ar ot such as sanarthot milk caseour patten anical in Comp tat e atules of cas a tr ed with er tin free sans thrit and mithe t howels to go ral agreement in the lever curve It h f t ame the thet al cat was dieser in the int I water er of me in I stance in the te ulte of gra at e thera a that the type of ag tuel It gheralt tonthaltt prepara atar twasam r

Insmecae i ; sem ntell r telafter t err attester at In chro ceases it is to etter me comb theith at es e ist

lath rm is here 1 Th auth somet thee d inth toro roca tie thavear tit to place tithe d the called buts

C whelf R. The Treatm nt | I schamle Contrac ti te by Free Tran pantati n of M. cl. (1 ber must ret M

h 1 M & ltr tur 11 3 1 62 19 1 11

have been a r ted fir the treat Mans m th n t of techari e tracture of the fo carn In m t of them an attem t i male t 1 gth n th t r ly It a th rumen was method en sutin I fe m le tr n I niat on arto the fer e nm fun! or su lms dg rum I r careful after treatm nt ma t be gi en Tarat uat nis n cessars e is four leen! the author has n t leen reme tran plintin Inc cae he o taired note Intresit in the off r t re was I lir on m at lut th fe It was not ileal Lore (71

tiefe ir R Rem al fth Pat Il Tran planta ti softi lat la of a Cad ewith the Sr rding I Is m nt After It atl n in 11 ch 1 Friding 11s, in its state to the control of the con

The nit er parts the case of a slifer whose ight fat lla mas ompletely estrated by a shill I t eight bur ft rib ing re arthrot me with ext sp t neftl pat flaan lextract of the sol n ter w perf em ! The femur ni til i w re f u tinta t tut th syno ia showel a m the i re ct n Con erval v treatment was attempted After th roug! clean ing th ten! n of the quadri cem and p t lla were sut red t gether with I ronze we remostru to n i the caps I was attempted ni the w und I el H alog ac rrel by hest

Although m biliz t n as begun on the tenth 1) not on in tl knee foint w s I mited an leaft ry d fects thre I ne h if month I ter The author ther fore ed th s r opened the wound and inserted the patella of a fre h cada r with the

55

surrounding capsular apparatus which had been soaked in alcohol for three days and in normal salt solution for thirty minutes The operation is de scribed in great detail Healing of the completely closed wound followed without reaction

After four weeks the patient was able to walk and after six weeks was able to bend his knee to 35 de grees Four years after the operation the motion of the knee joint was practically normal and the patient was able to work in a standing position and to walk RUDOLF MARX M D without limping

The Functional Prognosis of Tendon Lang K Suture (Zur funkt onell n Pr gnos d Sh en

M d M 1923 X On the basis of a study of 103 cases of tendon injuries at the Hochenegg Chinic Lang arrives at the

following conclusions I Primary suture should be attempted in every case of tendon injury in 76 per cent of the cases reviewed the functional result was good

2 Suture of the extensor tendon gives a better progno is (,6 per cent) than suture of the flevor tendons (6 2 per cent)

3 Secondary suture of the flevor tendons did not give a good functional result in a single case

4 The most important factors in the prognosis are (1) the localization of the injury the prognosis is unfavorable if the lesion is in the palm or on the flexor surface of the fingers (2) adhesion of the sutured tendons to the surrounding areas

BANGE (Z)

FRACTURES AND DISLOCATIONS

Schub rt A Tle Respons b lity of the Surgeon for the Developm at of Ischamic Contracture (In wew tist de bh dlde Atfuerd Fnt thu en cham hen Cntr tu v wo th h?) Md kl 9 3 373

A circular fixation bandage may be the cause of ischæm e contracture following fracture. It i not always the cause however as this condition may occur even when plaster of Paris casts and splints have not been employed I chæmic contracture develops very quickly reaching its maximum sever ity in from s x to e ght hours. It is not a condition prel minary to gangrene as Bardenheuer believed To the ob truction of the circulation there must be added an injury to the vascular nerves. Therefore in the most common form of ischæmic contracturethat following supracondylar fracture of the humer us-the med an nerve must be affected as well as th ulnar artery In the knee because of swelling the commonly used c reula bandage may increase the already pre ent c reulatory disturbance

The su geon cannot b held responsible for ischæ mic contractu e if the bandage does not constrict anywhere if it is inspected at proper intervals and if it is removed as soon as circulatory disturbance i noted In cases of supracondylar fractures the cond tion of the artery and nerve must be determined

immediately If there are evidences of disturbance the site of injury must be left exposed Even with out symptoms referable to the artery and nerve the circular plaster of Paris bandage on the upper ex tremity i al vays contra indicated because it may become constricting as the result of secondary swell GRAUHAN (Z) ing of the tissues

Clavelin Isolated Fractures of the Condyle of the Humerus (Les fractu is lé s du c dyl h me l) Rev de chir Par 1923 xl 1 5

The fracture described unlike the classical frac ture 1 entirely intracapsular. It occurs after the union of the epiphysis to the diaphysis otherwise it would be a detachment rather than a fracture The condition is rare. It is usually the result of a fall upon the hand or the flexed elbow and occurs in adults and adolescents beyond the age of 14 years Pain is not a very prominent symptom. The ability to flex and extend the forearm is decreased. The roentgen ray completes the diagnosis

The treatment depend upon the degree of the loss of function. If the loss is not great surgical inter vention is not desirable but if there is marked loss of function extirpation of the fragment by the anterior or the posterior route should be done. In practically all cases operated upon the functional result has been excellent ROSCOE JEPSON M D

ORTHOPEDICS IN GENERAL

Cofield R J The Etiology and Diagnosis of Back I alns C c att J M 1923 iv 280

Pain in the back 1 caused by traumatic or static injury injection and neoplasms. Static defects often cause unjury to the mu cles and ligaments of the spine and vertebræ Traumatic injuries may result in fractures of the vertebral bodies the laminæ or the spinou processes

Comminuted fractures of a vertebral body may or may not be subluxated and may cause impinge ment on the cord or spinal nerves vith consequent interference with sensation and motion. This type of spinal miury may pass unnoticed until a deform ity or a disturbance in the motor or sensory nerves develops

Fractures of the transverse processes may result from d rect or indirect violence and are not infre

Fractures of the spinous processes occurring from direct violence can be discovered by palpation and ray examination

Subluxation of the vertebræ often follows minor injuries usually those in the cervical and lumbar regions Subluxation of the fifth vertebra occurs very frequently and may be revealed by an increase in the cervical or lumbar curve and the \ ray find ings. Often it is accompanied by fracture

In the author's opinion subluvation of the sacro that joints occurs only as the result of a severe crush ing injury or relaxation of the ligaments Ligamen tous strain is very frequent and may be accompanied by pain extending down the leg to the ankle due to rirtiation of the lumboscarel plexus. In the author s op nion it is due to constant contraction of the ham string and posterior pelvic muscles. The Vice examination is usually hegative. The condition is difficult to differentiate from lumbosacral strain although palpation clicits pain from the point

affected and there is pain on straight leg flexion Lumbago is due to sprism of the lumbar muscles with constant limitation of motion in the lumbar spine. This is probably a myositis of infectious

Sprain of the inter crtebral ligaments may be due to di cet or ind rect violence. The \ ray examina tion i negative. Tend riess is present over the

tion 1 negative Tend rness is present over the affected portion. I ecovery 1 rapi i

Postoperative backache is due to the strain on the

muscles and fascia of the spine in relaxation during prolonged anasthesia

A disturbance of balance in the lumbar planes due to a short limb hip disea e or paralytic an I structuril scol o is may cause pain. Pain in the anteroposterior plane may be due to a defecti e static condition of the feet high heeled shoes a pundious abdomen or an occuprational posture. Alleviation of

the underlying condition usually re ults in a cure Anomalies of the fifth lumbar vert bra such as sacralization may cause print Coccygodynia is due to tension upon the le stor and other muscles attached to the coccyx in persons with a relaxed

pelvic floor

The Mar e Strun p ll typ of st on lylit s is a progressive ankylosis of the entire spine due to calcii ca tion of the ligaments. The costo vertebral articulations become ankylosed and the ankylosis interferes

with re piration

Tuberculous of the spine m 3 occur at any time of 1 fe and attacks most often the do so 1 mbr the lumbur the do sal and the cervical regions in the order n med Deformity may be prevented if the dis ase is detected and trented early. After collapse of the ve tebral body deformity results

Syphil's of the spine occurs in adult life and can be differentiated from tube culosis of the spine only by means of the clinical history and the laboratory

and \ ray find nes

Typho'd infection of the spine occurs during or s in feet typhoid fever a dusually in the lumbar in the do solumbar of the lumbos craft regr ins. The sig s includ local tenderness and limitation of mo ton. The \text{\text{ray}} hows rarefaction of the body with thinn got the disk

Gonorrheal arthritis occasionally invades the spine. It may be diagnosed from the history of urethral infection the involvement of other joints and the absence of destructive or hypertrophic change in the spine.

Acute suppurative osteomyelitis is rare. Its course is rapid and accompanied by pain and high temperature. The \ ray shows destruction of the

bodies of the vertebrae

With regard to tumors of the spine the author states that myeloma involves the body. In the X ray picture it simulates sarcoma but the pain is less se ere and the condition is not as frequently fatal Sarcoma of the spine may occur at any age in

volves the body and causes so ere pain which is not r heved by rest Death generally occurs with a two years. After extra tive 1 struction paralysis of the

lower extremities may develop

Carcinoma of the spine: a fiva's secondary most frequently following carect of the breast in women and cancer of the prostate in men. There is de struction of the vertebral body with nev bone formation which encroaches upon the nerve roots causing referr d pain.

Peflet back pains are due to unusual stimulat on of the ulterent nerves due to tumors of the posterior med astinum gall bladder disease aneuri m of the lower thoracc or abdom nal aorta carcinoma of the rectum enlargement or disease of the prostate and occa ionally gastic uleer appendicitis kideey dis sease tumors of the cord tabes dorsalis or neuritis

RUDOLP : S RFICH M D

Van Neck M Vici us Cicatrices of the Limbs
(C cutn c cuses d s m ml es) lrch fra
blg d ch 923 i 4

The treatment of vicious cicatrices of the limbs is one that demands the greatest patience on the part of both the pritient and the surgeon. The cicatrix is relatively supple and elastic in which case physio therpeutic treatment fo several months significant or it is rigid in which case it must be removed and its site covered by skin graftle.

Van Neck describes some of the si is indicating that a sacramy she stretched and discusses the method of elistic traction desised by Martin thich he has perfected by the use of a small hand apparatus. He believes that in case of adherent scan massage and mechanistherapy's e of very little tax massage and mechanistherapy's e of very little tax massage and mechanisterapy as of very little tax massage and mechanisterapy as of very little tax massage and mechanisterapy as of adherent scan massage and account of the fingers he recommends special rubber gloves which he has devived to help the natural movement of the figers by elastic traction.

Several cases are reported. In one in which a crushing injury of the hand caused a thick unel stic scar in the internal part of the med us a gain of only a few degrees in the extension of the index finger was obtained after nine months of treatment

W A BRE NAN

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Koenig E Changes in the Blood Pressure Due to Operative Procedures (Ueber Ae deru en des Blutd ucks dur h ope at E gnff) D ische Zitchr f Chr 1923 chrywi 187

Before the operation the blood pressure is raised becare of the psychic condition. In the early stage of narcosis it tends to rie considerably (state of excitation) but later gradually falls. The decreuse occurs more rapidly when chloroform is used than when ether is employed. In children narcosis has little effect on the blood pressure in the absence of complications.

Following an esthetic over dosage the blood pressure always falls rapidly and low. In such in stances there i a variable relationship between the blood pressure and the pulse. The level to which the blood pressure falls is of less importance as a sign of danger than the rapidity of the fall.

Ether causes no increase in the blood pressure but prolonged ether narcosis causes a marked de The findings with regard to ethyl chloride narcosi were not constant The effect of lumbar anasthe is was manifested in one to three minutes after the injection by a d stinct fall in the blood pres sure which reached its lowest point in from fifteen to t enty minutes. In the severe after effect of lumbar anæsthesia the state of collapse was always preceded by a fall in the blood pressure. The explanation of this decrease follo ing lumbar anasthesia Koenig thinks a toxic injury to the vascular center which is more acute in onset the more rapid the absorption in the duri. The type of operation performed under lumbar anæsthesia had no effect on the blood pressure

The effect of local ansasthesia on the blood prestree and the control of the control of the control of the sixtee and the control of the control of the control of the third control of the control of the control of the control of the third control of the control of the control of the control of the nation of the control of the control of the control of the ani in it edution usually employed for infiltration and in it edution usually employed for infiltration of the control of the

I marked fall in the blood pressure was observed by howing in one case of splinchine anasthesia in dured according to the method of Braun. With the exception of long operations and those associated with a great los of blood the operation itself had no effect in lowering the blood pressure.

As all conditions threatening life during operation are preceded by a rapid and sharp decrease in the blood pre sure the threatening danger may be recognized early

LORIR (Z)

Melnikoff A The Surgical Anatomy of the Ves sels of the Parenchymatous Organs (Z rch ur gischen Anatomie d'r Gef s d p n hyma toesen Orga e) D 1 ls he Zischr f Chir 1923

The location of the hilus by which the vessels enter an organ sa varied In organs covered on all side by a serous membrane (the lungs spleen and luver) the hilus is found on the inner concave side while in the ladneys and the pancreas which have only a partial peritoneal covering it is on the inner edge. The liver has two hiluses the porta hepatis and a hilus on the inner edge.

The branching of arteries and vein into the unitarent branches of an organ may occur before the organ or within its parenchyma. Everyl in the parences the intra organic vessels of the parenchy matous organs run radially. The center may be the organ or as is more often the case outside of if The principal type of vessel architecture is the distribution of the parenchy of the paren

The points of branching of all the branches of the same order are equ distant from the surface so that planes are formed concentric to the hillus. In the lungs and liver and less d stinctly in the spleen and kidness the distance of these planes from the surface can be stated in centimeters.

Collateral vessels may be classified as external and internal. The former connect the branches of different systems and the latter the branches of the same system. Collateral of a different order are both extra organic and intra organic. The first group is the more important functionally as they combletely restore the imparated circulation.

Clinically important non vascular parts of an organ are those that have only small vessels and efferent The lung have vessel free portions in the lo er lol es In the liver there is an extensive vessel free field at the suspensory ligament. In the kidney a similar area is to be found at the juncture of its posterior and median third However the surgeon cannot alvays avail himself of these vessel free fields The rational direction for an incision in the lungs is parallel with the ribs. In the spleen and kidneys it should be rad al to the hilus not on the ver t cal but on the cross diameter. In the pancreas it should correspond to the direction of the efferent duct GRAUHAN (Z)

57

Rabinowitz II M Experiments on the Infectiou Origin of Thrombo-Anglitis Obliterans and the I olation of a Specific Organi m from the Blood Stream 3 f Gy er & Obt 1923 In il 353

A bacillus is lated from the blood of the affected local ar 1 and fr m the general blood stream of persons suffering with thrombo-angulas of l terans caused similar le ne in rat bits into which it was inject 1 Th organism was 1 finctly hamoglo-I not h l SWEEL KUN M D

BLOOD AND TRANSFISION

11 A Stef n it ch M and Arnovii itch The Co gulating Action of Hypophyscal Fatract (1 p pos 1 lati congulate 1 atr lt dhype has) P mild 1 t mld | 1 1023

The authors conten I that if the hypercoagul hill its of the blood I llo ing the injection of hir phy calextract creducte shock it would be companied by art rill hypet ns ca n Heuropen a as in coll dal shock. Hypotension and leucupan a donot al ays follow such an injects n Ih refere while it m v be true th t the intravenous injection of extract of the posterior labe of the hyperhysis may som ti ie c use shock haract i I hy a d cre e in the number of leucocytes the honge in the blood co gulatil to is due r t to shock that to the I rect action of the glandular extra t In this effe t hypephyseal tract diters from all oth r glandular extracts Krtime et p M D

N gy A The Treatment of Harmorth des by Roe tgen Irradiati n of the Spleen (D. Rient g th flug d H merh test 11 g) Gogya 1 19 3 35 lu b M

Irradiation of the spleen with a stimulat ng dose of the \ ray as found t increase the coagulability of the blood in c es of hamoptysis ham plilis abdominal hamorrhage an I the hamorrhage f llow ing min r oper tions. I rophylactic irrad ation d mini he I the ham stringe of t nsillot my and aden tonis The effect was n ted in a fe minutes and I stelf from two t f urt en days or longer

Nagy r commends such grad at on in cases of hæmorrhagic d'atheus hæn ophil a purpura pul monary and r nel hamorrhages menorrhagia 11 ed ing myoma and other ham thag c ganecological di ases el ldb rth ti d'ler hæmorrhage an i post operati e hamorrhage and a a pr phylactic measure bef re operation POLYA (Z)

Copi er (H Blood Tran fu ion A Study of 245 Cae 1 1 5 2 9 3

In the ve 1899 1900 Shattuck and Landstein r d scov red in lepen lently the phen menon of iso ham gglut natio or that the blood of ne ind vid I fr quently aggl tinates the puscles f the tloo if the In 1906 Jan ky classifed blood int fou grops a ording to their agglut nating powers and a little later Moss similarly classified s rum agglutinins. The grouping of Jansky and that of Moss differ in that Moss & Group IV corre sponds to Jan ky s (roup 1 and Jansky s (roup I) is imilir to Mors a Croup I

I hæmagglutinati n occurs a sually independent ly of hamoly is while ham lys rarely occurs with out a pre ed no or a multareou, a glutinati n In e riam aramias aut hamagel this occur. Isoagalutinati n is d pendent on both the scrum and

ti e cells Several techniques have been develope [1] r b ood groupi g some microscor c an lothers macroscor c In th Moss method which I favored b the author sera from persons in Groups II and III are added to a su ten n of the relicels of the unkn n group Of th macrosc pic tests thos of We I ar I Vincent are more c mm nl empl yed. Wil uses citrated II I in test tubes while Vincent places the serum

I troup I non end of a si de ar I that of Cro p If on the other entart its to ea ha in pof the fresh ! | sol to Le test | In anoti er meth | lof deter mining the competitite fillood with at group g th I nor a s rum an I the rectt lent a curp iscle are tuded u d r the ris rosc pe II agglutinats n f the corp : les occurs the blad is cons letted in

compat ble

It is very probable that the g ouping of the blood f an in l vil al never than es. In blood groupin the most car ful techn ue a ex entral Bl sod to be teste I shoul I not be m re than twenty f ur bours 11 All glas ware used must be cleaned perfect! an I the tests should be made at room temperature Blood sera may be c refully stand dized and k of in an i e box in scaled glass tubes for a period of fi c or s tweeks Sod um citrate al t nisu ed to pre s at congul tion and tricresol as a treservative Some workers dry the s ra and keep them in tefinite

ly in a ale I containers or dr them with b ttir paper f r future use

Ih citrat method of tran fus on cems to be most generally u ed at the present tire but the author empl vs th glass syrs ge canulla method transf rrin the whol 11 to I without th ad lits n of antic reulants heaction occur occasionally after all methods fill and tran fu ion. The f stelly fever malaise nau, a vomiting a chilly s n at n or chill p in in the muscles di pn ra alle ranging from a sm ll rae above normal to an e tremely high temperatur

Blood from some donors causes a more marked rea tion than th t from others. The number of tr nsft ons an I the legree of anxmis do not se m to be factors in the severity of the reaction Some

e ctions seem t be pu elv anaphilaet e I atal hamolysis may follor transfusi ne ent hen apparently the bloods are properly matched or gro ped In the author s erres of 245 cas s referred

to in this article there were two such deaths The indication for blood transfu ion are increas

ing every year Transfusion a e gi en not only in

acute anæmia due to hæmorrhage but also in chronic anæmias many infections and both before and after a number of surgical conditions

It has been demonstrated that transfused blood cells may live from sixty to eighty days

The improvement noted after blood transfusion is due to the increase in the blood volume and the

stimulation of the hamatopoietic organs Blood transitison 1 almost a specific for acute hamorrhage and its value in shock from other causes has been shown by many investigators. Its use should be based upon blood pressure reachings as well as the clinical findings. The amount of blood transfused must depend on the indication and the size of the patient. In acute hamount of blood transfusion with the administration of fluids by mouth. It is therefore not necessary to supply as much blood by transfusion as as as lot

Time i in important factor immediate trans in on after hamorrhage is a life saving measure. The author keeps a list of donors who can be called on hurriedly when an immediate transfusion becomes necessary. These of course have been previously

grouped

In permeson anamia blood production does not keep up with the blood destruction blood trans fusion is therefore a valuable procedure as it re places the red blood cells which ha e been destroyed In such cases the blood must be given slowly and the patient watched closely to prevent cardiac strain Although transfusion is not curative in pernicious anæmia it prolongs life and its beneficial effects last for some time Blood transfusion is occasionally us d in simple animitias and has often proved of value in the cases of anomic patients prior to an operation occasionally reducing the surgical risk considerably. It has been employed sati factorily al o in a number of other conditions including nutri tional disturbances in infants. With regard to its us in acute septic conditions the author believes with others that it is of questionable value and might pro e extremely dangerous

The article is supplemented with a very complete billiography on blood transfusion HAROLD M. CAMP, M.D.

LYMPH VESSELS AND GLANDS

For II and Farley D L The Fflect of the \

Ray upon the Histor Ry of the Nod s in Some Cas of 1 mphadenopathy as Found by Adenectomy During Treatment J R d l 933 1 26

This report is based upon seven cases in which a diagnosis was made from the climical history and the pathological eximination of an excised lymph node treatment was then given and later a second biopsy was done.

The periods of clinical observation were of suffcient length in most cases to test the validity of the

diagnosis in others it was confirmed at autopsy Two of the patients are known to be still alive one was reported as doing well a year after discharge and the remaining four are dead.

The histories of the seven cases are given and the sections of glands removed before and after irradiation are described in detail. The diagnoses were (i) Hodgkins disease in the cellular stage () Stern Borgs pseudo leuk-mme tuberculosis (3) sederosing Hodgkins disease (a) aleuk-mme leuk-mma or systemic lymphomatosis (5) leuk-mma cutts with subly mpharmic blood (6) aleuk-mme leuk-mma or reticulum sarcoma and (7) lymphosarcoma and

It was found that the bimph cell and its congeners are definitely reduced while the endothelial and fibrous tissue cell instead of being limited in production seemed d finitely stimulated to multiplication. It was demonstrated very certainly also that there is no return to normal structure in gland under the action of the roentien ray and radium. Phagocytoss by large cells with vesicular nucles was more in evidence in it sues that had been raved than

in those removed before treatment

In discussing their cases the authors divide then into three groups. Group I comprised one case of distinct Hodgkin's disease and to suggesting a tuberculous origin Under the influence of the roentgen ray and radium the degree of fibrosis was the most conspicuous feature but the practica disappearance of large endothelioid and Reed cells was definite. Group 2 included two cases which although differing radically in a clinical sense pre sented tissue with many similarities both before and after roentgen ray treatment. The effect of the treatment was to reduce the number of small mono nuclears in the lymph nodes but there was no essential change in the anatomy of the individua cells Fibrosis however was not at all a prominen feature in the microscopic sections of these particular glands even fine perivascular intercellular and capsular connective tissue increase was missing. The two cases in Group 3 were similar in some respect but differed radically in others. They were both somewhat sarcoma like The effect of irradiation is these v as in the nature of a fibrosis and a change is the type of cell

ine type of cell. In conclusion is drawn to certain fea In conclusion attention is drawn to certain fea tures which stood out prominently. The first was the character of fibroses in lymphogranuloma and the disappearance of the large endothelood cells or the disappearance of the large endothelood cells or bodd cells of the soukiers to the possibly byte reduced but were made more visible possibly byte reduced but were made more visible possibly byte reduced but were made more visible possibly byte cytes in these conditions were not appreciably altered by the roentgen ray but were reduced in number. In the lessons suggesting surcoma in which the endotheloid cells were not prominent in the original picture they did not become more visible were greatly changed in both arrangement and were greatly changed in both arrangement and character. Thoses in the lymphogranulomatous varieties was much more voluminous than in the leukamic and neoplastic. Phirosis di 1 not seem to increase let een the cells after treath into what present in the location before rad, tim. The statement mad. It other writers that normal structure does not ret rin an anhormal lymph nod un! if the ction I the rounty away was fulls, e nifemed.

The learning of thes findings ipon the class i ca t on from which the li gnost c names were taken is simpl and I mit d He lymi hogranul m t us hins aret belong together and the rea tien to the r nteen ray a listincily i flerent fr m that of the leukamic and n onl to hyperpla i Th te are es ential differen als between the latter n table in the leba r f the larg en lothelioid cells but the particul r el m nts of peopl stic have play as a much more u c pt bl. to change of anat my than are the e f th leukami growths Tumor cills I gen r t te div and completely chang in shipe while lynipholds tie cells ret in nearly n rmal 1 po t n and may vary little r none in the rista nine qualities

ADLERS HARTING M.D.

Jas enetzki Woino W. The Try graphy of the Inguinal and the Lemmi III of 1 mpl Nodes and the Trentine of Fibir Letterstion (Di Try 5, 1h d lingual 1 d et en II litus e i d leh k h l ti g) Tr k i k M J o 3

These in (t tims were ad on sixteen ca di ers Nothing n w sf und with egarl to the ingunal n! Of the external 1 cond sthelingest and most constant lies in the suffer fit external lie enter in an flique die tom ar sait and so to that the effective fit external loup risignment A toperation at must in the for gotten that the artery is crossed at this site by the

The second group of nodes les und it the inferior oppis it even which must be drawn a.l. In node to rach them. As a rule these nodes le upon the surface of the explus an lusually number from one to three. If more are present which saving the least a by plen level, lateral to the files artern and medium this law vein in two groups. Acro. In ly the most on tant of these not she terry low over I unstall gament and lare in most intimater the making to the insumal nodes.

It operation the f llowing pro-educe mu t be fol-

The skin mess in beginning it on above the slive creat is continued has a flat are above 1 ouparts 1 gament carn discress this fracture above the femoral we class and then extend 1 disward to and the saption taxons. Mere 1 gat on 4 the veins the dissortion taxons. Mere 1 gat on 4 the veins the distribution of the same of the mere 1 tay the infer or come of the falseform in gain and the fastice Dross are divided the out their nature vit in the finoral vein sid, extel

t and the inguinal nodes are extirp ted. An in ci in is then m I un! r I ounart s I gament along the entire I ngth of the le um at if the tran ersalis fa cua of the 11 men as divide 1 a wile approach to the il ac no les is of tained. If this latter incision has f on carn d from th antero superior jine up to the rul c some a vil approach is of tained to the ingu n I vess Is by frawing I out art a ligament I waw d If the inc i a is c atinued a mewhat further outs art of the internal of house muscle is di il 1 and if Cimbernat's hi ament is d'afed m di li it is pos l'le to ligite eas la the common ili c a tery an i n the ao ta an I the hypegastric art in In the ay free exposures out includes of the potential of the urete lying in the pelvise and of the ent re ext nt f the v s d f en \ Hotsr (2)

SURGICAL TECHNIQUE

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

aén G Intravenous Trypasiavin Therapy in Septic Condit ons (Int av oese Trypasi in th rape ber spirchen Zust ende) Seiska Salwén G Laka t dn gen 923 XX 49

Trypaflavin was tested in seven cases As a rule only 20 c cm of a o 5 per cent sterilized and filtered solution were given at a time and at the most twice on to o successive days Care was taken to prevent the entrance of the solution into the surround ng tissues where it v ould cause necrotic abscesses which heal with great difficulty Whenever the veins could not be reached they were exposed. The cases treated were the following (1) a beginning septic pneumonia with a suppurative hamatoma and severe hæmorrhage (2) a resolving septic pneumo nia following puerperal fever (3) gangrenous ery sip elas of the perineal region (4) phlegmons on the forearm (5) facial erysipelas (6) a furuncle of the upper lip with phlegmons and (7) acute osteomye litis

In all of the cases the temperature receded almost immediately after the injection and a cure resulted PORT (2)

Munk J Magnesium Sulphate Enemata in Tet anus (Mg sum ulf t pe Clysma b i T ta us) V derl M s ds h G cesh 9 3 x 492

In a case of tetanus neonatorum an enema of o per cent sulphate of magnesium in addition to the use of tetanus antitorin was found very effective Prompt recovery followed

Ma nesium sulphate enemata were first admin istered in the treatment of tetanus by Feer of Zurich LOCH (Z)

Lli enthal H Carrel Dakin Treatment-An Im pr v ment in Adjust ng the Tubes in Super ficial Wounds M ! S g 9 3 1 t 62 In a new method devised to keep Dakin s tubes in

place du ing the irr gation of large surfaces such as the chest wall the tubes are inserted through the meshes of paraffin gauze in at least two places and the gauze is fastened over the wound MARCUS H HOBART M D

ANÆSTHESIA

Baumann D imann D Anne the la Poblems (Zr \r k enfag) Z talbl f Cl 923 1 8

The author believes that most of the fatablies occurring du ing or after anæsthesia and especially late fatalities are attributable to the use of an anæsthetic which had undergone deterioration Chemical examinations have shown that especially

in ether decomposition processes rendering the gas un untable for the induction of anaesthesia oc cur very readily Therefore anaesthetic substances should always be used fresh from the original con tainers and should not be mixed or saved in open bottles and the anæsthetist should make it a prac tice to establi h the purity of the anæsthetics he The tests for ether are the Jorrisson and Nessler tests and those for chloroform the Langgaart and silver nitrate tests. The author gives the details of these tests in detail HARMS (Z)

Rapoport B Observations on Angesthes a with a Report of 1 500 Consecutive Cases Bost 11 JS J 19 3 clt ti 169

The author applies the principle of preventive medicine by adapting hi technique to the require ments of the particular case not only in the selection of the anæsthetic but also in careful pre operative medication and preparation. His experience has extended to all the usual anasthetizing agents He concludes that while each has its particular in dications ether still remains the most satisfactory anæsthetic for general u e

G R MCALLEY M D

Chevassu M Acc dents from Anaesthesia In duced with Nitrous Oxide 'The Pre Operative Determination of Renal Function (Apropo d s accid nt de l'anesthésie au protoxyde d'ote l'app é at n préopérato e du fo t on ement re nal) B ll et mêm S c d chi d P r 1923 xliv

The causes of death from nitrous oxide anæsthesia are

I Cerebromeningeal hamorrhage in cases of hy pertension Aitrous oxide greatly increases the blood pressure

Infection This may play a part in serious accidents but seldom acts quickly enough to cause trouble during anasthesia

3 Poisoning from impurities in the nitrous oxide such as carbonic acid and nitrogen perovide. In one case in which death resulted 22 per cent of carbonic acid was found in one of the cylinders Cousin pharmacist to the Cochin hospital in Paris dis covered that many cylinders contained considerable quantities of carbonic acid thereafter all cylinders i ere tested before delivery to the hospital Nitro gen perovide is more dangerous than carbonic acid gas

4 Slow asphy tia This is rare when the gas is given by a skilled anæsthetist Aitrous oxide anæs thesia is difficult because it constantly borders on asphy ata Postoperative gly cosuria has been stated by Or to bear a relation to asphyxia during anæs thesia

d

**

to 18 tears

all extensive

and biliary

er tonitis

f the fear

following

5 Hepato renal insuffic ency Before the induc tion of general anaesthesia the kidney function should be determined by estimation of the blood uses or by the methylene blue or phenolsulphonephthalein col orimetric tests. The author never induces general anasthesia except in emergency cases without d termining the blood ure In a case in whi h th s was not done that of a patient wh appeared in good con lition death occurre I during the first f w moments of anysthesia and autor v for elahe patic and renal cl to contra indicatin g neral anxithe a Although examination for albumin in the urine t of value extr mely grave renal t ufficiency may occur ith tot I alw nee of all umin Occa i nally a surgical operation carrie I ctors of intoxication that mins provoke a renal lesion even then the ki lnes function befor operation was nor mal

6 Progressive n tro enizati n with possil le ure mia

The author is convince I that acc I ats of anys thesia are oft in due to the fact that m is pit ents lo appear to be in gool con hit n for perati n are in a precar ous state of physioligical e julibrium with latent uramia W LTER C BLR 7 MD

Metée F I perfences (1 100 Case of Spl. chnlc Angestiesia induced ly the kappis M thod (lif hrung a h l t Spl h l in es h annel Kappi) Dik Zik f Ca cl x 1 37

From one to a and a half ho is b i re the op eration fr mato s mgm f sc pol min and from a to 2 cgm of more hine according to bods a 1ght and theph sicular liner ouscond tionwere administered The inj tion wer usually m de into the abdomen By many tests a t p ent novocam adren hin solution (twic 40 c cm) w s foun i most effective Fract næstletiz tion f the abd mi al all and careful spraying of the peritoneum along the costal arch are ne essary I rethis purpose from 1 to 200 per nt sol ton of novocaine were c cm of a used

The p t nts angeling Solanchnic anasthesia 1 7 one at ns on the stomad tract It was not u ed ; an t full nturies of the al. of difficults in replacing ab lomin 1 d st ns on

ry good In fifty eight ases th s the p to nt as ent rely & & the abdom nal organs the on on I the lainte costal arch In sixteen cas of pain were made Inf ur bnic ana th sia th re a insu ħ parietal peritone m I si

abdominal organs was d layed. In six cases the anxithesia ceased after from one half to one and a half hours. In four cases parcosis was necessary for closure of the abdominal wall In six cases there was only doubtful or partial anasthesia and in four the method fail d In this connection the author states th t in certain cases the psychic state contrainds cates any type of local anasthesia. As a rule the duration of the anasthe a as suffic nt the longest time was more than two hours

In on fifth of the ca 's the distention of the mes enteric s ns was striking lossibly there is a me relation b, between the ph nomenon and the often alarmin per pheral pallor and the fall in the penpheral blood or s ur further in numerous cases a markedly acts e penstals; was ob erved in the stomach as well as in both the large and the small

In the great m pority of c es there was a marked fall in the bloo i pressure. In hine cases it was occain illy impossible to feter une the pressure. This Il finally lead to a determinate n of the quality of the annothesia, the best appethesia was obtoned in sevents et ht ca es shoving a mirke i decrea e. At the low le el the blood pr ssure rem med constant f r fr n f e to forty m nutes and then increased

The pul 1 in 1 1 end at of the blood pres are and as determin dehi fly by the psychic state. It was imps if le to detect any c trespon fence in th curves. On the afternoon f llo ing the op ration the pulse was strong and all and the general con d ti n usu ily f vorable. The neces ity for the usual stimulants is distinctly less after pl nehnic anas

theya th n aft r narcosis The first pass ge of flatus and the first defacation occurred a mewhat later th in following na cosis In beh ver subjected to a gastro entero

ing to he enle n Mikulic there was sto rea. In thre c es fatal p umonia 5e rat o of f tality's in cases nchnic anaisthesia as com ber operated upon under 3 e m ma and b onch: g narco s op rated upon un иc O re twenty ev two could not be a th

tage of the metho	r
ves els How	£ c1
the novocaine	the
with pneumo	m
small subc	e
ht kidne	50
the re	t .

PHYSICO-CHEMICAL METHODS IN SURGERY

RORNTGENOLOGY

Perthes The Biological Effects of the Roentgen Rays (Di biolog's hen Wirku gen der Roentg n st hlen) Stahlenthe ap e 1923 v 738

The author discusses the destructive action of the roentgen rays following a brief review of the development of \ ray therapy A difference be tween \ ray burns of the skin and ordinary burns is indicated by the latency greater pain and lesser tendency toward healing of the former Micro-scopic examination of an \ ray burn shows vascular changes and injury of the connective tissue as well as the epithelium Injury of the gonad and the blood forming organs is allo found Death from the effects of the X ray is very rate

In the treatment of malignant tumors the \ ray shows a destructive action characterized by inter ference with cell divi ion Especially the nucleus

is injured

The author discusses also various theories regard ing the stimulating effects of the \ rays particularly The selec upon tumors and the endocrine glands tive action of the \ ray and the specific susceptibil ity of various ti sues and tumors have been demon strated beyond doubt. In conclusion Perthes discusses changes in the susceptibility of the cell through previous raving and the relationship of the biologic effect of hard and oft rays to the wave length These problems can be solved only by practical biological tests Especial importance is attributed to the la tency of the ray action. It is surmised that the rays initiate a chemical process which persists for a long fime SILBERBERG (Z)

Hoffmann V Stimulation and Paraly is of Animal Cells by Me n of the Roentgen Ray II Ex perim ntal Research on the Growing Bones of Rabbits and Cats (U b r Err gu g urd La h m ng t er cher Zell durch Roentgenst hl n II E perime t lic Unte u hu gen n wach d knoch n n ka h n d kat) Si ki ther o 10

The experiments were carried out on thirty six rabbits and twelve cats by means of homo eneous hard roentgen rays The voltage was 180 000 the amperage in the secondary circuit 18 ma the filtration 0 5 mm of zinc and the focal distance 23 cm The skin erythema dose t as reached in thi five minutes In most instances a leg was rayed be low the knee

Small doses caused stimulation At the end of four weeks the tibia exposed to the roentgen rays was about 2mm longer than the tibia on the unexposed side This growth increase was maintained for from three to five weeks. After three months the two sides were again equal

In the histologic picture the epiphyseal line was distinctly broader the columns of cartilage cells were closer together the epiphyseal center of ossi fication was larger and in the diaphysis the bony trabeculæ were stronger and contained more lime than in the control This result was obtained with rays varying in quantity from 10 to 20 per cent of the skin erythema dose When 5 per cent of the skin erythema dose was given no result was demon strable Twenty five per cent of the erythema dose caused distinct damage in every case frequently it checked growth so that at the end of eight weeks the exposed tibia was from 2 to 4 mm shorter

It was impossible in these experiments to trace any regularity in the stimulation of growth by small doses of roentgen rays. When the dose was distrib uted over from two to four weeks the increase in growth was usually the same a when one applica tion was given but more certain When 25 per cent of the skin erythema dose was given a paralyzing effect was often noted. In older animals this always followed 40 per cent of the skin erythema dose

At the end of three weeks the growth of the rayed bone was found to be retarded. The difference in length between the raved and unraved sides became progressively greater over a period of months until the growth of the animal was complete In other cases a partial reparation set in and after several months the difference in length became gradually less In the microscopic picture the cartilage cells were far apart The process of calcification was retarded but degeneration or necrosis of the cells did

The roentgen dosage which is sufficient to stop growth is many times greater than that which is the first to produce distinct damage. The toxic dose and the lethal dose of the roentgen rays he far apart

In the experiments with scattered doses it was found that the full effect was obtained but appeared late When the conditions of life were altered in such a manner as to retard the growth of bone factors were observed which diminished the effect of the ro entgen rays After cessation of influences which checked growth such as narcosis or paralysis of the limb caused by the injection of alcohol into the sciatic nerve the roentgen rays again became effec tive though often not until months had passed Therefore the sensitivity of the bone to the rays per sisted and was diminished only so long as the inter nal vital conditions continued unfavorable to the c lis

Experiments regard ug the effects of the rays after the extirpation of endocrine glands yielded no definite information

The experiments on fractured bones confirmed Salvetti s finding that after roentgen stimulation the formation of bony callus is at first stopped and the formation of cartilage cells becomes more active. Therefore stimul tive dises should be applied only whin upion is delived.

As to the period of latency, the experiments tends that the real of the application of the rays is depend into in the blinks of the affected part to react. Kad os nost; it is a property of the cell (of the inicial is) which remains unchined even when the vital procees hich are until the influence of ensurement leading to the control of the control o

Nather and Schlin Animal Faperim intation with Regard to a Roenig in Stimulating Doe in Cur in may (Tirk sul) in Fig. dir Roe t g. 21 13 lb. Crin m). Fit k a d (b d k t g tr g a oc

The authors compared in use carcinomata ravel with individuous ser informations let did it me mather gard to the repolity of the regrowth and their weight and their gard; fitted it from use On the bis fither raults in more than zoon must cheap on the aline that of centrem the unit tanged starts mouse car now a soncerned. Brex (2)

In the flood of a cutoma curn rankose tum reducer vess und r the muluin re of the receipter rays what the second reducer vess und r the medium re with the second reducer vess to see the current of the reducer vessel of t

the in the inculation a gre to number of cells for the firmition of protective sub-tances

Cotter (7)

H Izn it G. A R iew file Pres nt Statu of Deep Roentg n Tl r py im J R Iz I 9 3 470

In the u fill t m phy call ds n at text n gnuz c t tak nof the boddy rel t ns of the m if tations eth lit! during the jn g of il at tho gh th holy o ty the dn iv dp tate powr fith tass the qut it of lag and the poportion between the need not adult a madth ad at on present at any

depth are con idered. This concepts a omitting nothing compri es all effective factors the kind of primary radiation the focus skin d tance with t well known significance the portal of entry with is scattering eff ct an I the qual ties of the body For practical purposes it seemel ad isable to formu late two allitional special losolo ic conception. a the limitless variety of the r pectiv factors necessitates concrete premises. The special c neep tion of the percentual deep lasage is la ed on the focus skin I stance f 13 cm at a d pth of 1 cm and a portal of e try of 6 to 9 cm. If the size of th pertal of entry is left out of con it ration the con cestion of the effects e dose becomes amplited More wer if the focus skin I stance in I the depth are I ft without a special determinate in the result will be a mer u e wh ch has been d si u te l as th utility ! c The latter chang a fee a place t the on the irral ate i bod which may be imagine i a being file ! 13 the numbers of the loses. Ih e d see may be thought of as intentities which ar effective at any instant or in any unit of time. If these are sun me lup furing the ure fara! t on the surfac energy nlits I tribut n are of tain I ar Ih rewith an ex ct il vof the quintity

of roentgen rays in the boly Investigation of the bilmal I sign and its f rm I from has been le s s eces ful. The ec ne ptions distructived we gar lizing lating dose skin unit like circu carcinuma fos ovatian Inc tul ercul n dose etc ha e !! been found wanting for p ct c I purposes. The all are of importance a orking hypotheses ir m hich the int tig ti n pricee is and all tiers I t for practic I purposes none I them seen s to be avail alle the is especially true I the con epti n effect of stimulation. I apen are his t ught that it is the particul form of tu or which ditermines whether the treatment ill be ucces ful or not 54 me tumors rea t fis rably her sothers are refractors in state of ref nement of technique

In rier to implify mitters the mindold affections may be arrivinged into four groups nanely those that require in strend is large quintity (this group includes only the care normal). It is constatus, and crain other affects in requiring a considerable quantity those requiring a mediu judantity, and those requiring a small quantity and those requiring a small quantity.

Apouru II area M D

Millwee R. H. F. frl. r Observati n In th. Use of High Voltag. X Ray. Y th. M. J. 9.3. 4 Moo. S. High Voltag. X R. y. Tl. rapy. Str. M. ntl. Fsperic c. 5. th. M. J. 9.3. 44 kith. D. 4. and Acith. J. P. O. r Fsperin celin. th. Use. f Deep Therapy. 200 kilo. Ir. More. S. th. II. J. 9.3. x. 43

Millings covers the subject in a m re r l
ge eral way t u h ng only inced ntally n los g
and nto arl esult. The flundre lesses ha e
been trated including mad g ancy of his te ry
part of the body but most of them cases of malig

nancy of the cervix the prostate gland the breast the neck and the face. With possibly three exceptions all of the cases sho ed some improvement. In 50 per cent the improvement has be n vers marked and in most cases the original malignancy has appar

ently disappeared
None of the patients has been injured by the treat
ment. The most serious ill effects were a few uncorn
fortable skin rections. Certain ca e which appear
ed hopel ss hive responded most derededyly hide
others with less marted unknowment have tracted
very poorly. Neither was the type of lesson any
of \(\times \text{of the outcome of the treatment } \) In some
cases a type of lesson supposedily very sen titue to
radiation did not respond ut all \(\times \text{hic in others a} \)
lesson supposedily very resistint to radiation re
sponded very when

In Milline's opinion high voltage to figen therapy is a distinct advance in the treatment of malignancy as well as in that of certain non malignant cond t one as it som times gives results which cannot be obtained by any other method

Mones a at le 1 bas d on 114 cases 170 of which were cases of malignancy. He a crubes three fatalities directly to the treatment and bel eves that in three others it was an important contributory factor. He gives det idel descript o s of many of the cases treated and discusses the results obtuined. He prefers to give the treatment in divided dosts generally one hour daly until the total dosage decided on has been reached. This method he r gards as far less trying than the single ma sive dose and equally efficient. On the hasi of his eyer ence he draws the following conclusions.

1 There is no inherent superiority in so called high voltage ro nigon therapy over the older method or over the employment of radium save that it is far more efficie t

2 Experience in treating 214 cases over a period of a x months would indicate that the earler of the excess derived sufferint benefit to make this the therapeutic agent of choice

3 Even in advanced c ses the rebet of pain and the sometimes a tonishing subjective improvement brought about by this method of treatment oul I and cate its application regardless of the hopel senses of effecting a cu e

In the peoperative cases the tumor deappeared much moe rap div than when the learn oltage method of treatment as used. The immediate pall atteressures in the hopele's cases were noted

more quickly. In the breast cases with nucrestass in the sails and the supra and infra clivicular glands the metastasing nodes begin to disappear within four of five days—much more rapidly than formerly. Breast tumors without metastass receded faster than metastate nodules or postoperative recurrent no lules. Progress has been made all of metastasts in which metastass hal begun the reduction in the size of the tumor was so great that reduction in the size of the tumor was so great that operation became po sible. A few cases treated without ordering the properties of the properties

Intzko W Roentgen Injuries and Deep Therapy
(Poentg nach eden und Tiefenth r p.e.) Wr
ki Wehnschr 1023 v 05

A series of purely technical sources of error are cited which are not necessarily dependent on deep therapy as such A skin field which has been intensively irradiated must never be re irradiated before ty o months because the endothelial cell of the cuta neous and subcutaneous blood vessels require that length of time for their restitution. The carcinoma dose is an empirically determined average dose Success has not been achieved in cases of non gynecolog cal carcinom; because we have been un able to el minate the injurious effects of the rays Honever this must be attempted not by decreasing the toentpen dose but by increasing it and an increase can be achieved only by improving the technique At the present time the author is endeavoring to restrict the severe injuries of the circulating blood by elastic cons riction of the blood vessels in the lover extremity a during the irradiation

DE SECLER (2)

Mahmert A and Zacl erl H. The Treatment of Roentgen Into ication with Hipertonic Solution is and a Discussion of The r Action (h B h mill gd. Roentgenk t sm thyperton h Locus ge Zgl.) 10. B tr g Frage th W ku gl. W M 116 sch. 93 vvv. 9

The authors attempted to relieve the symptoms of owing intensive riradiations by the intravenous unjection of 40 c cm of 4 25 and 4 40 per cent glucor esolution. The symptoms which include uncessines vertigo nausea or vomiting ceased in from one half to one hour. Prophylactic injection were of no a all. Hypertome sodium chloride solutions (Ifo. 1.e. that and Sielmano) also relieve Y arv intox ication. The administration of hypertonic solutions causes.

a current of flu d from the tissues into the blood. The factors of importance are the change in the water economy of the organism the admixture of alkali with the blood, and the effect on the protein metabolism. It is these processes which undergo decided changes during roentgen irradat on

formation of cartilage cells becomes more active Therefore stimulative doses should be applied only

when union is del yed

As to the period of latency, the experiments teach that the result of the application of the rays is dependent on the ability of the affected part to react Rad o sensitivity. S a property of the cell (of the nucleus.) which remains unchanged even when the vital processes which are under the influence of environment become temporarily or permanently altered. HAMLA, (2)

Nather and Schinz Anim I Fape iment tion with Regard to a Roentgen Stimulating Doe in Care nom (T sh FgdRet

R n 1 do bei C rein m) Fo is h d G b d
R lg l 93 9
The authors compared mouse carcinomata raved
with and 1 ithout a screen for various lengths of time

with regard to the rapid ty of their growth and their weight and the length of the lif of the mouse. On the basis of the results in more than 200 mice they deny the admi blitt of rootigen stimulating lose as far as mouse car moma is concerned. B cx (Z) Mert in V. E. The D. gnostic lise of Serum fr in Carcinoma Patient. Treated with the Roent

Mert us \ E The D gnostle Use of Serumfr m Carcinoma Patient Treated with th Roent gen Rays and a Di cus lon of th Action of These Rays (Uche ded gn tch \ 1 g des S m b thit Krebsk k d ub 1 W k g d R g thi) D th Zt h f Ch 9 3 1 6

In the blood of a carcinoma carrier whose tumor decre ses under the influence of the roentgen rays there appear substances which produce a violet spot when the scrum is injected intracutaneously into carrie s of s m lar carcinomata. The di coloration p rsists for a t me and then dis ppears w thout any sign of ham rrhage. Me tens co cludes f om this observation that the destruction of the tumor causes the formation f prote t ve substances by the ds integration of l ing c ll in the reul t n sam process p bably occurs when a tumor ds appears without breaks g through the skin When the skin rema ns int ct the tumor subst nce must enter the circulat on and protect e substa es must be formed Such substances must be p es nt in th blood of patients a hose tumors r trogress und r raving. The nigen ray pr bably makes a ail able in the ci culat on a greater number of cells for the f rmat on of protective substances

COLLEY (Z)

Holznecht G A Re i w of the Pre ent Status of Deep R ntgen Therapy Am J R Is I 9 3 476

In the use of the term physical dose in its stricts earse no cogn e st ken of th bod by rel t ns or of the m infestations exhibited during the passage of the rays through the body only the density and pen it to power of the rys th q of int of dosage and the poportion between the incident radi toon and the r d ton pes t at any

scalt pric late 4 as t nec tion c foc L an la portal cer to Mor o are left vill b utility place on t as bein doses m effect c these are tion th obtained of roentg Invest c formulati i tions d str lating dos ov man d been found v are of import the nvestig pract cal purp able this is e t

de

n i

in sp te of refine
In order to s
tions may be a
those that requ
(this group i clu i
comato and c rt
conside able quan
quant ty and tho

of st mulation

pa t cular form

the treatment

tumors react fa

Millwee R H Fu H gh Volt g \ \text{If gh Volt g \ \ \text{If h \ Month E perie} \\
Month E perie \\
Kelth D Y and Kei \\
the Use of Deep Tr \
S th M J 9 3

MILLWEE co rs th general way touching and nto ard r sults been treated cluding r part f the body but m one hundred and ninety eight in the joints seventy one in the glands seventeen in the genito urinary tract and the rest distributed in various tissues. The bones most frequently attacked were in the order of their involvement the femur sternum tibus and sarctin. The cranial bones were involved

in thriteen of the 227 cases
Of the joints those mot frequently involved
were the vertebræ (fifty even of 105 cases) In
thrift, five of the fifty seven ca sof vertebral tu
berculosis the lesion was found in the lumbar spine
In no case was there any sign of extre spinal abuses
but paraplegia was present in seven [Resides local
treatment these patients were subjected to general

heho acro therapy and forced feeding especially with milk. Only one vas op rated upon. The author states that most excellent results have been obtained in the treatment of cold abscesses

with hypertonic saline solution W 1 Breway DUCTLESS GLANDS

Elzas M Mediastinal Tumor The Recognition of Eunucholdism (Medi stinal tumo B trag u K th s m Eu chod smus) \(\forall d \) I \(I \) d \(\text{t} \) \(\text{C estk } \) 923 l'vii 1514

A 83 year old man was admitted to the ho putal complaining of pain in the right side of the chest suggesting pleuriss. Careful examination re caled sympathetic irritation in the left of a and dullines in the region of the heart. V shadov in the rore figure any plate suggested a double heart. The blood count sho ed by per cent essimphiles. The compile count should be supported to the same with the contraction test was weakly positive for echinocerist.

Bestles these find g definite ugms of cum hod ism were present—di untily leveloped breats a smooth skin a horizontal pube haiting and under development of the pens and testides. Because of the relationship of the thim is gland to pubert, the conclusion was drawn that the internal screens of the mediation and tumor stood in a caussitive relation to the under development of the gental organ. The furth recurse of the patients of some sumption.

At the first operation performed with the positive pressure apparatus of Zaajer the right ide of the thest was opened. Behind the parietal pleura next to the vertebral column a tumor the size of a mans fit as found. The lung as not involved Histologi examination showed the tumor to be a teratoma.

At a second operation the growth vas entirely removed. It measured it is by 8 i by 6 3 cm. Is structure resembled that of ovarian tissue.

In the course of a month follo ing the operation the hair distribution became more masculine the

b easts smaller and the testucles larger. This case is of great importance in explaining eunuchoidism. It shows that the latter may be divided into a primary form with changes in the genital organs themselves and a secondary form

aused by disturbances in other organs particularly the glands of internal secretion. The quiet manner and the reserved character of the patient were striking.

The author was able to find the reports of sixty nine ca es of mediastinal tumor in the literature. In fourteen the diagnosis was made during life

iourteen the diagnosis was made during life
When possible the treatment should consist of
radical removal of the tumor. In eight cases in
which this was done there was one fatility

DUNCKER (Z)

SURGICAL PATHOLOGY AND DIAGNOSIS

Theili aber A and Rieger H Cellular Immunity and Susceptibility to Disease (Cellul e Immur t et und Krankh tsl posto) Derische Itske f Ch. 1922 cixtu 78

This article treats of the rôle played by cellular ammunity in tuberculosis atheromatosis cancer and chronic diseases of the joints Cellular immunity lenends on the richness in cells of the connective tissue particularly the pre ence of young fixed tissue cells and hymphocytes It is well known that tuber culosis 1 more malignant the earlier in life it de velops According to the author the reason for this is not that li ht latent infections in vouth confer a certain immunity but that the richness in cells in the connective tissue of the lung is doubtless much greater in advanced age than in youth since the continual inhalation of dust is a constantly repeated stimulation to new cell formation. On the other hand the occurrence of atheromato s in ad vanced age is dependent on the decrease in the cellular content of the vessel nalls whereby in jurious material circulating in the blood (the authors are thinking here particularly of uric acid) obtain the opportunity to penetrate into the vessel mails which are no longer sufficiently protected by the cells Wearing out 1 considere 1 a factor of less 1mp0 trace

Lancer is explained in the same way first the connective tissue becomes poor in lymphocytes and fud tissue cells the removing a natural barrier against epithelial proliferation and permitting a secondary malagnant growth of the epithelium Placet the frequent appearance of cancer in scars believe the secondary and an analysis of the control of the co

The increase in susciptibility to chronic joint diseases particularly gout in advanced age may be explained on the bisss of qualitative and quantitative changes in the cellular content of the joints 1 outhful cartilage and synoval membrane which are very rich in cells possess numerous defensive materials which prevent the penetration into the joints of injurious substances such as uric acid

A decided decrease in cellular immunity explains also general atheromatosis

If these theories are correct it follows that in the treatment of the conditions under discussion an increase in the cellular immunity that is an increase in the production of lymphocytes and fixed tissue cells must be sought. The organism attempts to obtain this through acute inflammation. In dathermic treatment the action of dry heat we have a method of imitating this reaction. Diather mic treatment of the entire skin and of the broad cavities of the lymphocytes such as the splean date cavities of the lymphocytes such as the splean date the intestinal follicles has sometimes given very good results.

Injections of extracts of spleen and thymus into the gluteal region may be considered. Small doses of the roentgen rays and venesection have also had a good effect on the new formation of the cells in question.

In a number of cases of carcinoma of the uterus in which only vaginal removal had been done and it was certain that lymph nodule metastases re mained intensive after treatment of the type described was followed by disappearance of the metastases and absence of recurrence for more than five years

Light (2)

Hueper W Histologic Changes in Human Tissue After the Injection of Paraffin (Ueber die h tologs h n V aenderu gen im menschiche G web nach Injekt n von Pa affi) F kf 1 Zisch f Path i 1021 XII 268

The author studied two parafin deposits in the breasts which were made twelve years previously and were removed because of unbearable pain. Most of the parafin was still present and had separated into smaller parts only partially. There had been

and the decomposition of spreading of the mass as a spit of the decomposition of spreading of the mass as a spit or by grant of the mass as a spit or by grant of the mass as a spit or by grant of the mass as a spit or by grant of the mass as a spit of the sp

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES IN BRACKPTS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head

Tot laul n f th scalp sking ft P TRIDI AND DESCOMPS B Il et mem Soc d chir de 9 3 xl

I june and di ease of the soft parts of the kull O M CHIARI Leipzig Theme 1923

O M CHINAI LEIPZIS IN CINE 1943

EXP CES thost own bit so the skull A KALLEY
BACH Bettr kli Chi 933 cxx in 745

The clinical pctu f tept coccic osteomychitis of
th tupo 1 bone H BOYD-SYLE J Am MI Ass

19 3 lx 1 803 Concentral trismus and its relation to a it mical v n ti s f the temporal process W Schinto B t z kin Chr o 3 cxnx 633

A moma c os m of the parotid E CAPORALI Pleh Rome 19 3 xxx se char 450 A case of b I teral s ppu ative parot tis in a newborn if t L Volovité Re méd d Uruguay 923 xxi

The treatme t of par t I fi tule by ener ation I th gland A vranceanu Cl pul med 1923 81 [1]
The paralyte synd m of car oma of the p oud 111

I COLLET AND P BONNET Lyon that Q 3 Et The t eatme t of progressive furn culo 1 f the face LAEWEN 47 Vers mml d d utsch Gesellsch f Chir

Co general facual clits V P BLAIR Surg Gymec &

Obst bst 923 xt 53
The mail f loperat ece ters F Lemartre A ch te t de la yngol 9 3 x x1 822

te t de la yngoi 9 3 x x 322
A p o thes s f facial gery L U Giovaccinisi
d la Asoc méd a g nt 9 3 xx 1 312
Immedi te osteopl sty ft resection f the lower
w Il Piciniza W n kl Web schr 923 xxxvi resection I the lower Jaw II PICHLER

465 First lim of the chin E Cadenar Bru elles med 12 923 1 595 [2 Subac te encysted salı ry ab cess R RENDU Lyo

93 x 439 Al ge bmaxillary calculus J H MATRER A ch

Al ge bmanilary culculus J 11 MAINEA R ca Kad ol & Ele t other py 9 3 xx 11 84 Carc oma of th 5 bm ll ry gl nd E Delannoy Rev de ch Par 19 3 xlu 249 [2

Eye

Observations the normal blid spot S B Marlow N Y rk State J M 9 3 xx 369
Eye t es as a cau e f neu oc culatory asthæma s d
th f et nal heart d so de s E I Jones Am J Ophth 19 3 3 8 745 Ocul remerg cies ng e al practice J C Douglas

Md J A str ha 023 11 14

I rst ad n my nes of the eye A M MAN AY Med Press 1021 p s cx

ress 1923 p s cx 57 Tray studies of the sella turcica in some ocular lesions

G CULRYN Rafo ma med 1923 XXVIX 892
The relations between the eye and ear J VAN DER
HOEVE Ann Otol Rhunol & Laryngol 1923 XXXII 571
[3]

Factors concerned in the preduction of lessof the eye nexperimental syphilis W. H. Brown a. d. L. Pfarce N. York State J. M. 1923 x ii 376

Further observati s n a new meth d of preventing postoperative intra-ocular infection a eport f 1 250 successful cases G H BELL Arch Ophth 1923 In 131 436

The value of milk inject ons in ocular the apy G DE ANDRADF Brazil med 1923 XXXVII 53
Superiosteal absets 1 the floor of the orb t \ KNAPP arch Ophth 1923 11 475 Angioma cavernosum of the orb t with surcomatous

degenerati n. J. M. Jorge, and R. R. Gil. Rev. de la Asoc mid are nt 1023 xxxv1 546

C ngenital culo facial paralysis D B Krkby Arch Ophth 1923 in 452 Recurrent par lysis of the eye muscles with especial reference to ophthalmoplegic migrain A DUANE Arch

Ophth 1923 la 417 The diagnosis of pals es of the e tra-o ular muscles
E B Herkel All ntc M J 1923 xxv1 8 2
The su gical sults from operat n for convergence
st bism s J W Whitts N York State J M 1923

380 Plasmoma and amylo d degenerat on of the conjunctiva E ADROGUÉ Rev de la Asoc méd argent 1923 xxxvi

Skin on the co | nctiva in the treatment of symbleph aron J M JORGE and P SATANOWSKY Rev de la Asoc

med argent 1923 EXEV 411
Intra and tra m sals coperation E KING Cincin natt J M 19 3 IV 361
Dact) ocystiti in the newborn J L Denogues Rev

de med y cirug de la Habana 10 3 xx iii 594 Te atoma of the l chrymal gland L B

Am J Ophth 19 3 3 8 19 1757
A cas of p gre sive macular change associated with tremo s H M Josepher Proc Roy Soc Med Lond 1923 XVI Sect Ophth 19

Adrm d f the corne T H BUTLER Arch Onhth

Familial nod lar d reticula kerat ts M L Hinte Proc Roy Soc Med Lond 1923 Se t Onhth

Some corn I inv lvements R CALDWELL Med Note on W rn cke's pupillary reacts n J D Cumusns

Brt J Ophth 923 v 421



Paradental cyst of intranasal origin H Alory I von ch r 1923 xx 446 Repo t of the res lts f X ray treatm t pyorrhoea

al colaris G von Poswik Am J Roentgen 1 1923 Abscess of the to gue A O WHENSKY and J HAR KAVY Ann Surg 923 LXV 1 496

Congenit Ipap llom to of the ton ue M Rusz Moreso R v d la Asoc méd arg t 923 x 303 Rad um needl 1 m l gnunt g th of the tongue the time factor A J Larsan Am J P entgenol 923

Throat

X 734

JUNES J Lay g I & Otol 10 3 x 465
The cide a dh topatl of gy of b and artilage in the to 1 C V Weller in Ot 1 Rh nol &

yng 1 9 3 xx 1 687 Ach alad pathol great study ft n ic s A C Morres Ann Otol Rhanol & Laryngol o 3 W

The mpote filegindul 3stm nd api for the pre ery ten fithe to il JE Copeland V g ia M Month 923 l 4 4

The time titon is an inden d W C Mays
first Med J Autah 927; 69
In heat on firthe t ment fin l d d n is
W YCKFRS Med J Yustral 925
Ymethod fp tn th em l ft il a l de old a dit u finess the t

tm t of ose nd th t d fe ts in ge I A F Ewens Med Times 923 1 218 Tonsil c gulation P LUNDY M d Times 19 3 1

28

on the se fradum to due tophy fth fucil
! WAWELLS Laying op 93 i 68t
The em lift is the life e t method On tl The em 1 ft ils th p 1 r fe e et method othe th n mplete e cl tin B 1 S REX J Am M 1 5 30 3 lz 800

Alch I j t n a a p bl adju ct t to s llectomy le local næthes R S NES CHEIN 1 Ot 1 th I & Larvng I to 3
I p I dt ill t my—th
I g th with th Rh 8 7 [6] 'L t fth f c i

with the fit ь ħ Am VII q3 LRENCH 1 6 0 The te tim t I hem hg I ll ang t ll t my vlgat J F CALLAHA Laryn cop 9323

i to t ec mfo tin t 1 c se (I HARANESS and J I Rock J I State M So 9 3

Iymph dt e thet ll f æf lectomy B B Criciiffr a d S J P
Otol Rh I & Laryng 1 93 t 860
Rt phrygn 1 abees a deow æfl z t LM Y A

f thunten l tery D E S Wisnert C nad n M 1s I 1023 X 61 R S IRVINE Calif ma St te

P t il bec R S IRVNE

J M 93 xxx 33

The tom I dp th I Istruct

E M Josephson La yng scope 9 3 f the laryn 699 C prod ct R I I IDPAT Atla t c M I

1923 XXV 831

Some of the aspects of aph ma psychic and otherwise I A BARBETT Ann Otol Rhinol & Laryngol 1923 XXII 870

An intere t g case of laryngeal stenos s E M JOSEPH Son N York M J & Med Rec 1923 c vin 352
Cost of the larvax E D D Davis J Laryngol &

t i 19 3 xxx m 473
Tubercul sis of the larynx H H Brices South M J. Ot i to a xxxvm 473 1923 11 715 The clinic I diagnos s of l yn eal tuberculosis F R

SPENCER Ann Otol Rhinol & Laryngol 1923 XXX

The e lutio prognosis and t eatment of t bercul s of the laryny L DE REYVIER Pr s e m d Par 1923 The arly diagno is a detre timent of many and a coof the lary FO Lewis Atlantic M J 1923 xx arly diagno is a d tre tment of malg ant d se e

In ry to the larynt a duced by X ray treatm nt A VAN ROSSEM J Laryngol & Otol 1923 TY 1 477

Neck

C ng tal cysts of the neck L Gobbt Poli lin R me 19 3 xx sez ch 372 |6 The p ent o and t e tment of s mple gotter O P The p ento and te tment of smple goice.

The p ento and te tment of smple goice.

Livis it. J Vich can State M Soc 9 3 xvii 390

Enla g m nof the thyrod gla d L Rocers Am J

Al mit douth e k of acut g ter in a ch ldren s home E W ADAMS and H N CROSSLEY Lancet 1923 cc

Ad lescent on ter I L DE COURCY Cinci at I M The te appearance of end mic geter in Als counders

RHEIN Press m d Ia 19 3 1 792
The p th l gy of endemic got J MILLER Canadian

VI Ass J 9 3 x11 642 The g s hange in dis as s f the thyroid glad J T KING Jz Bull Johns H plans H sp Balt 1023

ixxiv 3 4 A etone the up red a f g ter patients A few determ to f the hange n blood acetone during thy d pr tion Study II The thyr il R S Hors BARD nd C W WEBB Clift n M B Il Clifton Springs V Y tk 19 3 17 1 6

New ports of ew the lu tion of the pha maco dyn me t t f t n Also co tibution on the G t h dr nal ntet V Orator Mitt a d C eng eb Med u Chir 1923 xx 1 4 B sal met boi c rate determi t n W II Sto ER

An Ch Med 931 131 The t tal and the n t g o s metabol sm in phtha! mic g te W M BOOTHEY nd I SANDIFORD J Am M As 9 3 lex 1 295

E ophth lm c g te 1 childhood wth me un sual m if tations H HEIMAN Am J Dis Child 19 3 TTVI The path gene s f Based w's disease J Holst

1 t chrurg Scand 9 3 s pp 1
The rôle f the d encephal c centers 1 the path e es of B sedon s disea C P WALDORF Re de l Asoc mid agnt og x

5 5 The degree of treatment of e phth lmic g to The teatment feert in types f go ters S McGeine Virginia M Month 1923 1 3

Thiffeeofo inetacton gote R BAUER Ween klin Wich chr 93 W 46



In estigations of the innervation of the abdomin 1 wall, G SOEDERBERGH Ztschr f d ges Neurol u Psychiat 1022 IXXX 206

Sympathetic Nerves

On the relation of surgery to the vascular sympa thet c system W A SHERWOOD Ann S rg 1923 321

The technique of the combi ed resection of the sympa thet c trunks of the neck F BRUENING Zentralbl f

Char 1023 l 1056

The effect of bilateral cervical sympathectomy upon the respiratory movements V Papilian a d H CRUCEANU l med rozt iv i

Experimental research on the effect of nerve freezing and pe larters I sympathectomy on the vessels f the limbs Wiedenopy 47 Versamml d deutsch Gesellsch The late results and unfa orable res its of pen attental

sympathectomy a d the appl cation of this ope t n to the treatme t of a tenoscle otic gang e e F BRUENING Kin Wchnschr 1923 ii 0 3 [14]
In est gatio 5 f visce 1 sensibility the poss bl ty of

h ing ang a pecto s by resect on of the po terior roots or the c rrespo d g pin lnerves D DAVIELOPOLU Bull et mem Soc med d hop de Par 1923 3 8 xxxix

Resection f the symp thet c for a gina pectoris [16] JONNESCO Presse med Par 1023 XXXI 5 7

The operative treatment of an mospastic attacks especially angina pect iis Bruening 47 Versamml deutsch Gesellsch f Chir 1923

Gastric crises and sympathicotonia M Labbé and I SEBILEAU Bull et mém Soc méd d hôp de Par

1021 3 XXXIX 1224

Angesthe a of the sp nal nerves beyond the rams com municantes in the gastric crises of tabes the poss b l ty of t e t ng this ynd ome by sect on of these nerves D 1923 3 5 XXXIX 1240

Miscellaneous

The significance of the spinal mercurial manometer A S MACLAIRE N Yo k M J & Med Rec 1923

C bro pin I fluid pressu es Concerning an initi I fall in p es ure readi gs nd the method obtaining a standard reads g H C SOLOMON H M PREITFER and J I

THOMPSON Am J M Sc 1923 clavi 341
Studies of the cerebrospinal fl id in infants and young children in co diti ns other than acute meningitis S MCLEAN Am I M Sc 1923 clx 350

The cereb spinal flu d and its relation to the el m nat on of urine J V JORDANA Arch de med cirug y especi l 1923 xii 111 [16] A cutaneous epileptogenous zone and reflex epilepsy T PONTANO Pol clin R me 1023 xxx sez med 425

SURGERY OF THE CHEST

Chest Wall and Breast

Two c s s f hypertrophy of the breasts at puberty J P Tourneux Rev franc de gynéc et d'obst 19 3 1 454

Chone mattis G Keynes Lancet 1023 ccv 430 Chro c and rare fo ms of s ppu ation in the breast C L FirzWilliams Pract t r 19 3 cm 73 D C L FITZWILLIAMS Pract t Vacci therapy in mammary infects n during la ta t n P Baland Rev fra c de gypée et dob t 1923

The d'agnosis of early bre st tumors T C BLOODGOOD

J Am M A 10 3 lax 875
Tumors of the male brea t J kuranoff kli tsches Kaj Med 10 Cancer of the breast L B MEYER N York M J Med 19

& Med Rec 923 C 358
Ca cer of the breast 1th report facase II HANSEN J I wa State M Soc 93 1389

Tw cases of cancer of the b ast in males R H

Ree r c in cancers of the b 583 t I E SUMMERS J Am M Ass 1923 lx 873

Traches Lunes and Pleura

Tracheot my impro ed techn que E G GILL. Y ginia VI VI th 1923 1 4 3 I tratracheal tum rs f the thyro d gl nd with the re t of a case cured by operat n O MARER Arch f din Ch 1171

thin Ch 1923 CXX 1 825 117
Obstructi u f the bro chi by no -opaq foreign bodies
report C. C. PHILLIPS a d R. H LAFFERTY South M J 1923 x 1 685
The tre tment of 1 g injurie L. Brenes Mitt a d

Grenzgeb d Med u Chir 10 3 xxxv 606

Amorbic bronchitis without abscess Petzetakis Bull et mêm Soc. mêd d hôp de P 1923 38 x xix 12 9 Amorbic abscess of the l g Pissavy Bregger a d CHABRUN Bull et mem Soc m d d hop de l'ar 1923 A S XXXIX 1264 Pulmonary amorbiasis P Manson Bahr Lancet

19 3 CCV 599 Amorb c pulmonary abscess cured by emetine TRABAUD

Bull et mem Soc med d hop de Par 1923 3 8 xxxix Hyd tid cyst of th lung oper ted upon ly the Uru

gu yan method G Bouzom J de med de Bordeau 1023 X V 480 Artificial p eumothorax G F CHANDLER Practi

er 1923 cm 187 Creosoted air in artificial pneumotho ax BARRALT Rev med d l Rosano 1923 xi 233

The cautenzation of adhesions in the artificial pneumox treatm nt of pulmo ary t be culos s un ler thora SCOPIC CO trol H C JACOBARUS A ch Rad of & Electro-

therapy 10 3 XXVIII 07

The technique indications a d val e of extrapleural thoracoplasty in pulmon ry tuberculosis nd b onch cta ass M GCHAEMINET Presse med Par 1923 XXU 796
Th racoplasty in t berculosis of the lungs H Hatke

Beitr z. klin Chi 19 3 cxxix 456 Bronchus ligation a contribut on on experimental lu g pathology and su gery R Vissey Deutsche Ztschr f Chir 1923 claxux 160

The surgical treatment f bro chiectas s T NAEGELI Zischr f aerzil Fortbild 19 3 xx 193

Sprochard pulmonary gangrene B S LINE and
M A BLANKENBORN J Am M Ass 1923 l xx1 719
The roc Igen logy of gangrene of the lung H L Nov WINTERPELDT F rische a d Geb d Roentgenstrahl 923 XXX 301 [18]

S 0 3 Ix i 40

A co trib t t the stud of ant lobar pleu sy E MUSENTE Kai ma mede 19 3 821 Empyem n sitts and some all de duns I I TEES A h 5 rg 1923 v i 3

THES A h S or 1023 \(\cdot 1)

FI ys could yet algo tput ul JBORME

CHES SCHMA A M (1) 9 x 221

CA set ft the tent t fch ncempy

M CA II not J m M (2023 leve 199)

The lue fr f premall (x fee yet)

The J S INTEGRAND Chicag M k 93 | 7%

He rt and Pericardi m

Cult 1 fit h 1 H Krose Arch f kl Ch 93 .

Œ ophagus and Media tinum

Perri iscpv = a i p m p p tul st s t j ksc Otl 0 3 x 1 41 nt f J Laryns, I &

O S Look Am I Roe to not your x 606 Mi cellaneous A method I by gwile cress t the hest casty with the graceo liny differently of the Hand Tork Mintscheskaj Med 2 1 [19]

Sin t I the ce-opharus occurr g d n pregnancy

Se case I pha yngo-ces ph geal d'y rticula. R G fooire B ll et mem soc de chir d Pr 10 3 zh

Cacr fth cesoplique M F Porrer I Indiana St te M As 10 J x 1 8
Ca m ftle cropb g P P Vrsos Am J M

hd manil yer im nt fea ce of the resonha gu D M thoy ter Bru L smel 10 3

Tr Ilm ryepeut fth amoph ou F 5 cm

Acute most t labores towrt of for cares in chil

naten /entalbl ch rost 1 850

113

03

P.P. VINSO Am J Ob t & Cynec 19 1 1 345 Lise trict s f the assoph gu R. M KINNEY J Laryngol & Ot 1 1923 83 1 46

Its SURGERY OF THE ABDOMEN

03 1

Abdominal Walt and Le Ho 1 m

Hern x childre with if the rad all q of ignus lies \ I Sori \m I S g to s

xxxy 6 Th esorpt pc p tl Claux pctyfthepunt the cea gray Mith d (gb l Med th ceard 10 1 222 1 6 8 1er lat g p t t M LFR D tsc)
med W h sch to 1 1 35 mee w. n.cm. 19, 1 s;

So dingpent x d t t tm t \ Cliffit

J 1 \ Stell\ O g 3

E p.m. nal t fy po t i u c i tra bd m.nal

j t s flypert cgl c sesol ti i th t tm tof

pet it J b. Nakar Am S Tg 19 31

The u f t p | t t flue pet it ty it

pent al j t s f fph n th \ Cettin better

Cettin fills for the cettin fills of the cettin better

The control of the cettin fills of the cettin better fills of the I! lin Rom , 3 v v p t 558 590
The g i t tm nt f dff se perit t
HUFLTL ()6534 t 19 3 0 [20] 11 [20] The quit fet tim ten it to Cantalanessi Creo i Polin Rime 93 xx ten it tis I Pt 96 Tb 1 softh ros mbac J C CARR Med Cl Am 93 593 The glt atm t [t bec] pent t

The tre tm t fadhes n I twee th me t m pari tal pent eum DT g I segn t mat d clin trap 93 hin trap 93 44 Primary ehoo fith m t 0 M GARLOCI An tld h 93189 Thim etry lant meal and galt dy D Turk rec P med P 93 x 790 Aca fligen dile-tils acman is r thim se tery of lift mu fllyrm d t perat Falm P Ry o Md Lod 93 S t km P Thetalgy ry dimpotan fth ysto-dod Win Nage SgCm VObt o 0 3 (20)

Témory Bill et mém to d hi d I

! membranes imulat ug ca oma f the col A Gorrson J Am M Ass 1923 1 xi 1996

Gastro Intestinal Tract

hamorrha es f th g tro- testin ! P st perat tr t W W MB RSEI () klg i 4k sche tw To the poor the result of the control of the contro 9 1 The fict ibl teral t th 1 n p thicotomy Il t my ponth m t In t n I the st 12 h I WAT & Frisch d Geb d Koe tg trable 0.3 5 Cognitispeet in 5 the politus surgesture to Cognitispeet in the NT Don's Med J trib 0,3 it also the NT Don's Med J trib 0,3 it also the Cognitis of the Cognitism \u trab 9 3 A ted gate the py with peculife the use fill tall till Kanron JAm 11

[23] 931 2 816 ۱, C tn hem or hg fhpt g Blaco v G in hem or he gings and the second of the s

Verse of gast ic syphilis R. C. Moentile, J. Michigan

Stat M Soc 1923 x 1 393
The pathology of chronic gastritis F Ramond and C JACQUELIN Buil et mem Soc med d hop de Par 1021

35 XXXIX 1 73 The choo cg stritis of gastric ulcer G E KONJETZNY

Zent albl f Chi 1023 1 1026 Clinical dications in the diagnosi of gastric ulce G Carist Riforma med 19 3 XX 584 [23]
Peptic ulcer M M Porris Med Cl n N m 1923

11 440

Ju tapyl ne ulcer G F Corre U S Nav Med B ll 19 3 ur 18 A utep forat of the stom ch and duodenum with a

port of s ty cases C L CIBSON Am J M Sc 10 3 1231

The teatm t of p forat l gastre ler p f rated d od pylo culce s OUDARD and JEAN Bull et mem Soc d hı d Par 923 l 381 [24]

1241 Ul r cc tr v of the st mach L HITZENBERGER Ar h f p th An t u I hys 1 1923 c 1 424 miect in the treatme t f ga tric d d I'rot I ul er II Kark Al n Weh schr 1023 1 t the

The in e t n of th tomach d it relat rgicalt tment of g st ic ulcer Gia OLLA A ch m d belg s o 3 let 1 6 8 Lo gitud 1 esect on of the st mach f ulc rs of the les er ury t e N Horrotomer Lyon ch 9 3 xx

Th urgery of g st c nd duode l lc rs 1 thei mpl cations T BEER Deut che Ztsch f Ch r 10 3 1 ther

[21 Gistromy otomy an ope t f the ure of ch ul er of the stom h T C CLARE Lancet 19 3 cc

Non ab orbible mucous memb ne operat g st c ulce M GARA Z t lbl f Chr

923 1 127 I cu lo neoplasms of the stomacl R Nov Ro a d L Bravo Zimora R de l Asoc méd a gent

C neer of the stom ch I H WILLIAMS U S Na al M B Il 1923 296 The early diagn is of cancer of the st mach by m a sof t c lyss T I BLANLTT Brit M J 923 75

75 [25] tg n dagno is of carein mat s I e 11 WAITZ ELDER T tsch d Geb d I oentg t hl 923 T. 0

Cancer of the tomacle enworf fifty pet vely a depath logic lly povel care J. B. Firrs. So th. V. J. 19 1 7 587 Thee ase Thee ase f g stric car m peset g unu at features C T S JACKSON B it M J 1931 44

Cyst c sa coma it chel to the g ter ture f th

stom h Soulicoux B II et m m Soc de chr de Pa 9 3 1 055 Act but n nsugers 1 the tmch cmpa at esperim tltdesofth no ture H klose d

experim tilt desofth no ture H klose d P Rosens tu Ca É ir h f kl Chr 93 cxx Nest I testal tun is first st es Mer i a I Forreit Bill timem soc a t d Par 39 Cl dя Hall Whid 19 1 s of a testinal diseases M F ulu BER

Phlegm u tests I Hamme Ly chir 1923

Intestin I perfo at n typh 11 er T II McCan LEY JOHI h ma St te M Vs 923 x 285

Unreco nized intestinal perforation from a foreign body follo ed by the f rmation of an inflammatory mass PELOQUEN and ROUVILLOIS Bull et mem Soc de ch r de P r 1023 xlix 1028

Intestin I perforation from typhoid T SANDELIN Finska lack saellsk hand! 1923 I v 323 I test nal obstruction T W Holmes South M J

19 3 TV1 7 8 A ca e of intestinal occlusion from barium sulphate

F LEMPERG Zentralbl f Chr 1923 I 1083 Intu scept n vith especial reference to childho d P SCHMUZIGER Schweiz Rund chau f Med 1923 voin

Acute intu susc ption in infants R W BOLLING An Surg 021 I 1 340 Further obse vat 0 5 on 1 tussusception in 1 fr ts L M KARN N York M J & Med I ec 1923 exviii

cases of intest al in agriation in children Th

DESCARPENTRIES Bull et mem Soc de chir de Par 19 3 xls 605 Dynamic ileus and its causat e lacto s F D MOORE S g Gynec. & Obst 1923 v 1 375

Submes teric stra mul tion of the small intest e due to abn rm linsert on of the mesente v T Lagnor Bull, et mem Soc nat de Par 923 xcm 153 [27 Three cases f ileus du to defects in the mesenters A ROSENFELD Eesti Arst 9 3 1 144

Hernia of th small i testine through the uterus L KIRBY I Arka sas M Soc 9 3 vv 79 I farct of th small intestine secondary to hern -

recovery POUCEL. 1rch franco inte tin 1 esect belges de chir 9 3 xxv1 698 Report of a cas f metastas Report of a cas f metastas g carcin id of the small nt sun Schnebel Arch f kln Chir 1923 carcin id of the

cara 65 To c ses of sarcoma of the sm ll 1 test e C Powy TREE P c Roy Soc Med Lond 1923 v 1 Sect Surg

 85 The duodenal syndrome $\,$ M $\,$ Delor $\,$ B $_{u}$ elles-m $\,$ d 1023 10 1168 Anght pa ad ode Thern a C W NAGEL J Am M

Ass 93 lt 9 7 t cul of the d ode m R BONNEAU Presse Ď

méd Pa 9 3 xxx 817 The diag : of duoder of duodenal ulcer A Beck Best kln Chr 1923 c tir 300 [27]
D od l ice comb ned with ch lecystit's C L Mix

Med Clin N Am 1923 VR 337 Acut perf r t f duoden lulcer II K Shawan and F VALE Ann S rg 9 3 lexviii 342 Gast oduodeno tomy s s g stro-enterostomy in the

treatm t fch onic duoden fulce F R FLINT La cet 1923 ecv 5 8
R peated resect n of the stomach an stomo; and

col n the treatm nt f peptic ulcer of the jet m W DENK Ze tralbl f Chr 1923 1 466 The roc tg graphic interp etation of ileocol n c
a E C SAMUEL Am J R nigenol 1923 x 721
Meck l di erticul m as an et log cal fact r in intes

lob tru t n A report of three c ses J A Johnson Mi nesota Med 9 3 1 470 128 Congenit I and acqui ed d f mity of the ileo-caeco 1281 ppe dicular pl ca cau ed by ileocarcal pos t onal stenoses S Souten Ar h t l d chir 1923 ii 253

Cancer f the lower end of the small intestine t eated by d ep radiother py afte ileos gmo d a astomo s e t rpa ti n ta eccond ope tio a deta led h t logic study A Gosser B ll et mem Soc de chi de Par 1923 xlix 48

The ter I syndrom I Hestz Byer report of a case cu ed by c lecto y C Perrier R med d la S see Rom tors lu 575 Inte t al oc lus on f om worms A FARANI Arch brasil de med

rasil de med 0 3 is 8 3 The intertainted the form of the face BUR ETT Am J Roe t 1 1923 x 599 I po t of a se of m g c lo II M VI [29] I po t of a se of m g c N braska Stat W J 923 VICC ANAHAN 331 C ng nital meg 1 with evi erat E BUSSA LAV

Polchn Rm 93 ezpt Th sug I tre tm nt of g col n G GIACINTO Piclin Rome 93 xxx sez chir 8 [25] Cho c col tis J B Pollard U S Naval M B II [29]

85 Ulce t e colit T HORDER J P LOCKHART MUM MERY DICLSON W F C d othe s Proc Roy Soc

Med Lond 9 J xv Sect Proct | gy 96

The ecases febr nu le tu coluse u dby od e
A H Logan Med Clin A Am 13 3 1 1 3 | 30

Cau e of th c lon P T Milley Jr Ann S 12 R sets of the promal lofr n igncy F W 1021 रिक्र मा ००

RAKIN nd L. J Scn Ach S rg Q 3 [30] Fi e ases of urg ry f th col CESTON BILL mém S c de hi de P r 1923 xl 432 [30] Chages t the stret e fth test in m 3550ated with the form to of tifi all anu E House GREN Anst An 031 449 [31] Ret zeri ac ato of a tope to erlhern s. A S nen Bratil skéleká k l ty 923 m 69 [31] The eces ty fd t mn gth ond t fthe appen d in ght guinal h ruia L W YER Bru lles med 19 3 76 [31] f the appen

Giant appendix A HAMANT and C MATHEEU Re d ch Pa 923 xlu 55 I brol my m f the ppends A Popestá nd A R

RIVIDAL Sem med 193 x 64 The ole of b cillu w l h g g en ppend tis JE JENNINGS N YORM J & Med R 19 3 CX 11

Chr ni ppend cits in f y J M Mam Gan Reméd d R no 19 3 us 3 h ni ppend t R LOFEZ BARN A h d n d c 19 3 ppend t R

Su gery fthe app d t W L Lovez dT E J v Am V As 03 lx 69 The tre tme t f ppur ti ppe d ti w th [31] t educ g th h c fr po t pe t h CULPTEPPER South M & S 923 lvvv 456 frpotpet hma JH

Peulo- m dt with rethory tit's implicated by liac bacess C Licini P l l R m 923 xt p t 106 I test I cols n tnot e f th t gm d from

h ditary 1 P Escripero and G P co R de 1 t méd arg t 193 348 Cognital trit f th re t m in hildrin \ C Cognital inf fth ret m in hidden
D vm Sig Cl N Am 93 5
The opic t time t fp lose fth
H FINSTERER A chifk! Che 9 ccrui 4
Bl l g f m th tum A A LANDSMAN (32) ct m [32] P diat 923 1 53 [33]

ot f eop ted po June 9 f canc t m by th bd m o- 1 m thod H H Pr Ry So M d Lond 9 3 1 S b Repo t f BROWN Pr Se t Proct 80

The t change f at up ting high lya gea math the rect m C Bayes Ze traible f Ch 9 3 1 53 ma f

External hamorrho ds. C. J Deveck. Am. I S re Atrests of the anus rectum and cesoph gus with a case eport J H MARCUS N Yo k M J & M d Rec 1913 CX3 374

A new plate procedure f the t tment of see f rms of prur tus ni l' Karewsei D tsche m d Whnchr to a x! 8

Liver Gall Bladder Panc eas and Soleen Studies on h er i ct on rose beng l'eliminat

the blood sind e c d by his rinjury G D DELPRAT JR Arh It Md 193 xx1 401

Poentg logical a d urological studes of ind ced h pate c ge to Chiray Lenfour Losiov d CLOGYE Bull t mem Soc med d hop de Par 9 3 33

XXT 1293 Tearing f the right b nch f the hepat d ct opera

a n roo er E kurner B il et mén Soc de he d I 1923 l 47 (34) A discuss n f bil ary 3sts m conn ction with th pot of cyst of the h p tie d t the size of mans bead wheh as rem d by p t F Eziscarz Or. Het l 193 kt u 175 Gall bladde disc se with special r f ce to the

scop fi dings R A Agens I Radiol 1021 i

A spe ial r ct on of lon of bilin y ongon U Bac Cara T F I chin R m 9 3 x x s med 333 1353 A h I hydra in g II bi dde di se Gatewoon J Am W tss 9 3 txru 90 Ch n cg II bhadd di ca C A Elliott and W H NADLER Med Clin. N Am 9 3 Vii 349

Cholecyst us feb mi 1 non in m fll wing inh l ti ns of poiso g s H M Sr mouse U S N 1 M B li 1023 1 20

Tm as a sympt m f g ll bladd disease R S FOWLER Am J S g 9 3 txvu 4 Th 1 crist n and the alust 1 [35] f th N unyn and th th n sofift n ith r gadt th p thoge s f h l l tha T Royst C \ t chirurg Sca d 19 3 3

Ara e case of calcul f the gall blad ir A B anching PI lin R me 19 3 se hir 400 Chiltha sis from the service por ti w O Ur RE DUZZI Rif rma med 9 3 xx 1 48
Th surgel treatm t f chilthass
FENERUZIN Z talbl f Ch 9 3 1 [35] Results f g ll stone g ry Horz 47 V rsamml d th Ges lisel f Chir 9 3 [36]
Id I thi cy ts f th h l dochus L Adam Zen

tralbl.f Chir 9 3 1 1000 Primary 1th of the h led ch s G Secure

Semana méd 9 3 xxx 619
Th t atme t I t es n the comm d ct WALZEL 47 V reammil d d tech Ges lisch f Ch 9 3 [36]. Ch ledoch d oden t my as the m thod 1 h ce to

dang fth deep bl passag s A JURASZ Ze tralb! f Ch 1923 l 200 Acc de tal d vi f the comm d ct in et ograde ch lees t et my Savari up Bull t mêm Soc d'hr d P 93 al t 8 137 d P The dat f the commend of after the lecystee temy ES Jopen J Am M A g 3 lexts 7 4 137 G II t surgery II M Richter Min esot Med

923 53 I tra e us inj cti ns I tr p e in biliary sepsis R. Sáenz de Santa Marí v Marrón Sigl med 9 3

lax 861

[381

The determinat on of bile salts in the urine E SALKOW SEI Arch de med cirug y e pecial 1923 En 329

Inju ies of the p ne eas during and after re ection of the duode um for ulcer P CLARMONT Schweiz med 1381

Wchnsch 1923 ln 3 1 Hæmorrhagic pane eat tis d e to serpent ve om

PR IONI Semana méd 1923 XXX 11 6 The pathology and diagnosis of acute pane eatitis E

M Boyle J Nat M A 1923 xv 179
A case of pance to n plasm A Pisano Pol clin
Rome 1923 xxx se chir 426 The surgery of sple canamia R H Fowter Am J

Su g 1923 XXX 1 35
Splenectomy io t aumat c subcutaneous ruptu e of
the pleen M S KAKELS N York M J & Med Rec

923 CXVIII 372

Chr nic s pi c plenomeg ly syndromes F Buck MASTER III o s VI J 19 3 xli 199 Tuberculo is of the spl in the f rm of a old abscess

Tuberculo is of the spi in the 1 rm of a old abscess placetomy reco ery R Franchous Built timen Soc de chir de Par 9 3 xlix 959

End theioma fth piece a study of two cases with a evi w f the literature of primary malagnancy of the spiece C E Stitti and G Y Risk Arch Sug 1993

VII 37I

Miscellaneous

The contused abdomen E B CLAYBROOK VIRGIN a M Month 1923 1 4

The infl nce of hamorrhage on the mortality in gun shot wounds a d other murres of th abdomen with an analysis of sixty nine ca es J M Mason Ann Surg

1923 lxvviii 364
The diagnosi of les ns of the subhepatic area J LACOUTURE Ed R DAMADE Rev de chir Par 1923

Chronic icterus f m tuberculosis of the glands of the hepstoduodenallg ment G Pototschnig Arch ital di th 1 1923 VII 377 Visce al pai perception 1 FROEHLICH Wien med

Webnschr 9 3 Ixxii 1321 13 9

The dag stic on fica ce of abdominal pain E A

CAMPBELL Am. J S 9 3 x 7 7

True disphragm to herms as a es it of inh b tion of growth of the esoph gus W Towvoor Deutsche Atschr f Chir 1023 clyne 250 Retroperitoneal fibrol poma R FLEISCHER Monats

schr f Geburtch u Gynaek 1023 l 00 Local and the 12 the upper abdomen R E FARR I Am M Ass o 3 1 1076

GYNECOLOGY

Uterus

Ob er ations on the in ervation of the ute us B Whitehouse and H Featherstone But M I 9 3 H

The s g cal a p cts of uterine malposition J A
Perrir W sconsin M J 9 3 xtm 157

Ret odisplacement of the ut rus following childbirth

F. W. LYCH J Am M Ass 1923 TEXH 978.
A report on eight cases f gential prolapse tr ted by pattial c loo le is V Combine J Munard and Chino Lixu B ill et mem Soc dechir d Par 1923 xlix 7.6 [39] Partial c local 1 s s a method f treating genit l pro-lap e Gervez Bull t mém Soc de chir d Par 0 3

Thr 30 Ut ef at n by tl g nal te OL BOTTARO Bldel Soed but y g c de B s At s 193 H The ymptom d treatm t of double teru H
Evnez Zentralbi I Gyna k 9 3 xl 128
Lact ti at ophy of the t ru II Schiller Am J

Obt & Gyne 93 333

The te lm t f dysm rrhoea na lys of oc cses L Phillittes Proc Roy Soc Med Lo d 923

avi Sect Obst & Gynec The tr tm nt of ere te i chæmorrhage by r 1 um [39]

Inter in his of ere te is hemotranage opy; 1 um S lonsnire. But M J 1921 u 499 M orth galeted by ten i knay therapy L Makit outs Ent M J 923 i 411 [39 A car of cut met salp et u c ed by cen the py i Weynerssen R lang de groce et d but 1391 399 I tramu al hyd t d cy t of the ut rus E L \ H.a Bol

de la Coc obst 3 ginec de B enos Aires 19 3 u 528
End m trit s d due tuberosa E kerrera Ar h f Gyn k 1923 c 97
T be culos of the rvix I th uterus A J Cavicira

Bol de la Soc d btyg e de Bue os Aute 1923 u

The etc logy and the eatment of uterine myoma. If Freuvill Jahresh of aerzel I rebild 1923 x 1 The treatment of uterine fibro ds with the oentgen rays with ill st tons of one nal appliances J N McCoy

tm I Sug 1923 xxxvii 38

The treatme t of uteri e hb oids ope t on or radia

ton? W F Shaw B it M J 1923 1 00
Experienc with radium in the tr timent of certain fibromata a d m t orrha is M A Stern J Lancet 1021 ps zhat 4 6

Disc ss on of all re myoma by the ginal ute H SELLHEIM Khn Weh schr 1923 11 496 There wof forty c n cuti e cases fc cinoma of th

cervit D GAYN IR U ol & C tan R v 19 3 Ktvi Inoper ble ep th I oma f tle neck f th uterus curet

tage and r d um tr atment a cure f more than ten year SAVARIAUD d DEGRAIS B ll et mem Soc de chir de Par 1923 Ilix 243 Carcinoma f a prol p ed cer iv in wom n ag d 77
H R ANDREWS P oc R y So Med Lon 1 1923 xv

Sect Obst & Gymec 100
Ope to and rad ton treatm t of uterin ca cer
J Icca Med Kh 923 753

Adne at and Peri Uterine Condinons

Th rel ton f th ermiform ppendix t the female ge tal og s O BEUTTNER Cynéc et bst 1923

An ana horm ne preimu ryr port on ts local uzat on et a ton dp t al pur fc t n a daction in testa m l E ALLEN and l A Doisy JAm M As test a m 1 & Atlier and 1 to botte 1 mm [39]

The p tholomical nat my of the corpus lute m—
absersa cyst harmat ma dr op sm E Aovak and
the man and th

R W TELTYDE B II Joh s II pkins Ho p Balt 1923 XX. IV Sq Important con de at ons of o r n t mors of ll types

T I WARING J Med As Ce gua 19 3 11 353

Benign lute ma f the v ry G Lino A ch di st t e gi ec N ples 1921 280 P pll ry cystade om f the o ary G Hoopen Ca di Pract. 923 | 343 a di Pract. 923 | 343 O an n hem to ta E M Blair Surg Gy c & Obst 923 x 39

Ech co co s f the o ry d tub A Gros
Sr Krszly Zentralb! f Gyn k 193 xl 1 129 d tub A Gross a d cysts A J Far s Sport o rupt foat Bld I So d bet ygine d Ben s A 1931

333 The g Theg is ide moid cysts of the v) P RAMÓN V CAJAL CI y 15 9 3 32 [40] derm dt mo HRSP CER S m man derm dt mo HRSP CER Poc Ry S Med Lod 193 Sct Obst & Gynæc o R pt red unilateral sold ca cer fo ry o an t m nee ene y arsi ter HRS setze Poc Roy boc M d Lo don 93 x S et Obst & Cymre 5
Th ppe ance for an tum r ft \ y a.t
t L Loor Stabl th p 03 47
The teel q f n pey RB y Eau l f c d gyn'e td bt 193 x 528 Tran tn g flat R Perces v d R S NOV J Am M 1 93 lx 198 V cinother py n d 1 nflamm t CROY I Im M 1 G CHTE fanç d synic et d b t 93 rv 369
Then tu fnodul r alp gits B & sand LOLLIER Gynécol g n n the t tm t of cute salp rates t W D c n n the t tm to: cute sup to tours V Bonney W B B IL and L I intl s Bt M J 19 3 30)
The tch q f lo geet my IMBERT 65 fc et

External Cenitalia D ble u thrain a f m l W T D N EUTHER J

obst 19 3 71 3

5 ്വ ങ്

1m M Ass 923 1

The tr tme t of vag 1 pr 1 pse in the absence of th ut ru L NUCESBER ER Zentralbl f Gynack 1923 1314 Vag al I cerat no Gottschalk M d Klin 19 3 The terme tofkrasis vlæby ympathectomy of the hyporate artery the result at the end of a yr R LERICHE Lynchir oza xx 1 4

Miscellaneous

The yelic hag nith g t l of f mal mamm ls E Hierovyan Mo atsach f G bu tsh. Gyn k 19 3 ltm Natur and the createners system L Sole R W mel Wichn hr 9 3 km 97 o G r t ofm strut uteo de al by J Abo T 1 d gye d b t 19 3 xx 80 Flets few tree ept method A. F. Stell

Cl tet 93 xv 35 The etil gy fel sea es fw m H SAENGER Me chen md Whosch 93 l v 94

I d phy fil im le pel safter p umope to-I d pay ! U ! m te pet satter p undope to m. k h. Gynéc tob ! 0 3 N 1 3 p 1 l c: flamm to s th r t logy a d p thology I k as s N m J Obst & Cyn 923 368

The tetm t [pel ct ns in om n E N I LLA x N Lm.] Obst & Cyn 9 3 1 299

The di os. nd t tm t [ge tal the] so Pavkow W use sh which lad d Lessnighed d Med

The tm tofg hoeat w m J BEINITZE D tech med Whn h 93 lix 94 1 in the py gynec'l v A Robiolis R v fracd grant dbt 93 363
V ccanothe progression of dbt 193 363
V ccanothe progression of dbt 193 363
D ubbe militancyt fthome d M E Dt Collo Bo URETTI A h dio tet etg ec 9 3 3 5

Sp mod cot tions fth trudungp m)

OBSTETRICS

ase po t

P an ney and Its Complications BALBT Clinttos 99 Rifti mplcatgpg cy HGBt B ÅLB T Some comm codt eq R \ HE DRY Lact 93 eq 1f ant tha R & HE DRY Lact 93 548
P tal a ewdfr m th p bl h lth tad
pont R W Loe STI Am J Obt & Cynec 93 86 P sults g din m t m ty ca which t at i h bee gi FL \D iz d C O M L D J Im II les 03 lex 99
Ch s th t sled gp O
SCHWARZ nd F P Mc LL x Am J Ob t & Cyn H O)23 55 The baal m t bolumdrigp gn a d th p m H F P or a d H K Root Vr b I t Vi d 93 xxx 4
The cd ba quilibrium ip any fith n
b m A C Williams v Am J Obi & G; c 93 Ea lvd on is foregnan why thinhlo diglyc i

test M L PÉREZ nd \ VI BREA S m n m 1 19 3

Clos fpe'n y A ROEMMERT D tel m d W h chr 9 3 l 9 2 P gna y with a mpassabl gn ase po:

R M Wilson South W J 0 3

BEF N 10 k St t J M 19 3 11 385

The magement fpg y the proceed by m ret be 1 s C T & Gynéc et bt 9 3 33 The t tm t f th tube cul p A Weamer schi d E Ol cis Gyn t bst 142 Mym t my the thidm the fpegn tlp mat dley the hihm th I Gries R f d gwnfc td bt 93 539 Etpegiti threpotfeas Wiscoms MfJ 93 vii 54 Atb belm alt timp t in pg month 5 E BERMAN Sem a ned FX. [43]

f m the JLHE ROTAY Etpeg tu f [43] G éc t bt g 3 57 ment i in mpitly Etp gestt mant i m mpithy esected fall p tb Auva. Gyncc etobt 93 34

Thee ces fabd melect per cytterm
D Marro (a ci R d med y ciru Ca a as 9 3 n

Labor and Its Complications

The mid fe problem n the U ted States A E RUDE J Am M Ass 19 3 l u 987 The c nt ol of midwiy H Balley Am J Ob t &

Obst trical a alges a and a thesia a c ns deration f nt ous o de vyg n d and c mb nel method W C DANSORTHA d H C DAVIS J Am M ls 923

ly x1 00 Ch cal tudes of a new an 1 c n b tetrical and kyn c log al pract ce A Manya Arch d at t e

gnc 10 3 1 45
Sc pol mi m rphine semin os r p rt of its se in the th d th usandd h eric n Barn H pit 1 0 H
Schwarz and O S Kre s J Am M 4ss 19 3 1 x 1

1 S3 alue of ac I ne v bl kannesth at betet s B E BOYAR 2 d W R MEELER J Am M 1 19 3

l t 1 79 Pil of labo pan a an early ymptom f tabes d a l G HASELHORST Ze t albl f Gynaek xi 1 10

The utity f d git I dil tat on f the cerv v P T HARPER im J Obst & Gynec 0 3 v 3
C nd ct of b eech pres tat on L DEMELIN Re

f nc d gyné et d obst 923 433 Th fo c p F La Torre Chn tet 249 28

Two cases fet ed pl nta biorn t ter s f l lowing mi cang DALÉAS Bull Soc d b t t de gynéc d Pa 923 XI 4 4 Rt ton fth plent bau of tinet at the tublagle V NTT GLIA Cl tt 10 3 X V 233

Manufetaton fthe plc t TR GOUTH IS

Am J Obst & Gyn 93 v2 32

Am J OSST A Oya 9 3 12 32 MO 1 MO 1 m thod to ind detachm t f the pl ta E PESTALOZZA Cl tt 9 3 27 Thet atmet fruptur ef eth tens; R Io RIOEZ NILEGAS R ag t d b tyg 9 3 6 I omplet ruptur of o f th abdom l t at tem M Z OFARRELL B 1 1 S d b ty

ga c d Bu no Ai 9 3 316 Symphy of my a d th g 1 p act t A PER D IRAETA and othe s Bld la S d ft yg c d Buenos Ai es 9 3

Relt fpbtmv C Tháir Gync et obst

93 33
Case and stone lhyst they fut r fibome deplitation Rice and Loottone Bill So do t tdegraed 1 93 47

Whilh Irdf mmy 100 ceee s SP BARREN Am JOber & Gyc 9 5 V 338 AP thin tudy of elampa WBEL J Lacet 93 ns 1 47 WARREN

The sea ch for a treatment of eclamps b sed on its path e e is L Cheinisse Presse med Par 1923 X 1 720 Obst trical shock A H MILLER Rhode Island M

] 1923 VI 31

Puerperium and Its Complications

Op at cue of a case fich onic nve on of the puer p ral terus L HANDORN Zentralbl f Gynaek 1923 ti i i i

P erp ral seps s (bact ræmia) c u ed by b c llus nflu en æ W THALHIMER nd B M Ho an Am J Obst & Gynec 10 3 VI 343
Perp 1 inf ction Turenne R v mid del Uru

gu y 19 3 vs 295 P rpe la fectio BROUHA Rev franç de gy éc.

etd bt 923 1483 The cot goods e proph and tre tment I pue er I niect JB Gonzalez BI de la Sc de obt per 1 niect

c de B enos Ai es 923 D noss and prophyla is f purperal feet n P Hatven Rev fang d gyn c et d b t 19 3 vii 486

V cinoth rapy n ob tetrics P Lequeux Rev i nc de gyné et d bst 923 xvu 355 Thee c s of pu rpe al niect n treated by vaccin th py J VANVERTS R v fra ç de gynéc et d obst

) 3 v 395
The try me to fperpel infection with a plyvale to m J Langious Permél Par 193 x 796
The aput on the doferment agreement for on the try Treatment of the try 3 xviii

P rperal f tion nd vag n l hy terectomy E DODAY P ss m6d Pr 023 x 78 Suppu at thrits i the symphys pubis du i g the puerpe um S So ieri Polclin R me 193 xx ez ch 98 (44)

Newhorn

Refle s f the newbon F DE ANGELIS Am J D Child 9.3 vii Harm hage of then whom F CLARKE N b ka Stat M J 1913 329

Miscellaneous

Eff t to vads mpl fict n f b tetri al care R S
Smov r J M hig Stat M So 1923 v 1 388
Th 1 fth Xryin b t tric J P GREENHIL M d Cin V Am 1923 6

Va atos n the pel c tiet C CORRÊA DA COSTA
d gy c d f t 93
A of hydat d f rm mole H PAPTI TA R de gynec e d obst 1923 1 199

GENITO-URINARY SURGERY

Adren 1 kidney and U eter

The P 1 A C L STL O DA COSTA P The p i A CLSTLODA COSTA P med P 93 x 1 60 Acton f an may et t the addiglad L Acton f an may et t the addiglad L Acton f an may et t the addiglad L Acton f an may et t the addiglad L Acton f and f a méd 93 r94

Sen to ty f den is to irrad atton and p evention f d I jury ind p tg n y ther py HOLFELDER and PERPER St ahlenth p 9 3 [45]
Hypernephr m H B PODLASKY Am J Rontge nol 9.3 714 Ac se of hype phoma E TANT Buelle md

923 M 180 I anephrit c absces M BAUMANN Be tr

Ch 93 c ti 337

Expense stal at d a n r 1 phys spatheligh M Gil ov I I cln lome 1923 xx sez med 102 Innervation f the kid ey f Lrot v a d l 124 DRIN Presse mel Pa 10 3 x ti 4

test II ct on I Tar linuel How should leam d 1921 i 921

The! ou ik! 3 ct in regery E Prive 47 Ve sammel de tech Gesellsch i Chr 19 3 [45]

Som bervat s nr olt withk in y lu et a tests I M Bar pa 11 Ray un An Cin Med sore All of theet ugindp to Florog

beln 5 k 913 11 I lebon phil lein tto empart with urie llu'n il oscope fas e Nil VII Nih tus k Masser Clita VIII Clita Spar V to sur

Acse famorb et l Pirris Bill i mem socimel d Pap 11) 1312 133 ém ∖oc méldit*p l'i); 3 s s s An namo hitaerico stibsm ⊒tel

incist A M C spis L Ch lab ag gi 24 To phil ! tests the st is lither not no est cyst Lif y Ne s nd C to at J durol med

et cir 13 6 H pern shrom of the sht k ir ve th chyl us a

cites Praves Jd rol mel et h 923 1 1 linxa O Crc n 1 child he 10 3 71 %

So-called aseptic re 1 pro 12 W Perres De twhe Zisch f Chr 19 | 12 i 34 | [46] Il eatl d on fit berely fith kidges HUFBAIR 4 V mml I drutch Gesellsch f Chir

146 At be kidn y in it g mpyema. K DLY
HAM d C KAAP C connat J M 9 3 109
Re al tuberculo- W O I 1 DE Tra \ 103 a M

Math 9314 t Them per is her in live iti i mu inrat t her Im Ilul km 193 m K

nat 43 Ta la fullull Twin fultili fkly Isetters are a Vennelld til Ge Behichi e s 1461

perud littli si Re il t bet h one n e LAZILLOTT Ji iméith to saist Ti path ginesi fiagn of tritmint fiena ti (Tixet Illn Im ga xise chr ol tr tm nt f enal f i l 481 Apod ulted at mit gre lakuls HL BALKE III UI 93 1 4 Los lites fr thi dense frenteal ins V JOC 2 Med Cl. N m 93 437 Antiestore se fail te lits UI s April ulti

Antiestrace of a fire its the start of the s I H LLAND Ur I & Cut n K 03 54'
Al rg re leal-ul ROW an Bt M J 93 1 153

The tehnique freephrot my see flog at gul t t a LAP Bull et m(m Soc d 1 1 P 147 • rs (Caust C tril t nt tr tody frn 11

I'lch R m 19 3 x h

A e fm lg at po th file lpel is itheal
rul J THOMSON WARRE Proc R y Soc M d
Lond 923 x h Sect Url 8e

Cases illustrat z m thods of dismosis in renal sure re-F S HEAVY Brit M J 19 J 18 8 and J Wirrer
The 1rg alkd y S W SCHAUER and J Wirrer
Brit S to k M J & Med Rec 1933 crew 284.
Sephrope y throw h an otenor approach. P Fres. CES HER Lischt f erol Cl r 19 3 x 1 31

The tr verse ic im in the urk ry I the kidney JI SCHREES Sebraska St te M J 1923 10 2 3

I mil rat ry sposure f the k in you ne side t i ephrect my n th oth r in a i need cases of r nai tulerculosi (I kanoav Zuch f urol Chir roat 123

A case I I all kill ey rems well by per tun Neo 21377 Ve ha dl. d Gevellsch I Chr. Morkow 1922

Umlat ral bifd ureter with a f plante u eter ind aure ter cle on the oppositie FARs are Visok St e i the uet r R. P fo TA Ds I temat.]

Vied & S R 023 373 Ureteral c le h P J Laurr \ Orl ans M & S J 19 3 12 1 113

It ein the maht or trefferyears durat on resem M ppend it pa sed aft r cystoscopu, proced re. A M Cha ch: Im J bug 1923 xxxvi 242 Trementors I lat ral uset ral idatation in an adult

T Davis | Led 10 1 x 257 Prestrictural pe to tion 1 aret is with stri tures. MAYIN POLLO Arch urol de la Cin d Necke P

1911 | 55 The odres it ftra silatt fth u terit the I test e 1 M NIROLERL N wy Chir Arch o s 1

Impyema f the ret ral tumps f I wn I compl t ret ect my A Hyst v Ann urg 1923 lex 11, 587

Bladder Lrethra and Penis

The fu ct n I relatio up between the bladder and kidney Sfirks J d rol med et !; 19 3 | 17 Retent peurosi f the blad i rece tare t postor rate e thet rigation V C Liberson V Y rk V I & Med kec 1913 c 1 169 C I lemptyi z 1th erd t dodliadder II C

Brures Ja a d G S Forens J Am VI Ass laz i 821 St des the ret a distaller with especial fere ce t gratato I the earsh nite to R C GR 13 and I M Daymo r J Urol 913 x %5

If dbook of cystoscopy L. Cas ar Le paig Thieme

Acase old ti I m I th bladd following per tion fr hone saly g on hontis. G Ilrowate Ach

brasil d med to 3 11,797
The oper tive teatm nt f es cal di ertic f 5 John La cet, 9 3 cev, 415
A case of es co- rethral cale lu J T uson W LEFE
Proc. Roy Soc Med Lond 9 3 st Sect Urol 87

The p thology process exical cli losis A S R
TOGO I I R m to y xxx see prat 106
Sto e in the bladd to H Hatlann A V k M J

Short Rec 1933 CE 3 5
The rap 1 ty f ton f mati i th bl dder M N
B vt r v wy Ch A ch. 10
7
[49] Ach 10 7 [49] Th trest at of m la mesoth rium F LE TEU F MARSAY OF FLAND D

Jdu! mid et ha 93x 8 Segme tal resect of the bladder f eoplasm JB SQUIER S rg Gyne & Obst 9 3 x 1 79

A case of total extirpation of the bladder E Joseph Ztschr f urol Chir 1923 xii 353 [50] Lesions of the urethra ca sed by inflexible sounds Anguel Arch, utol de la Clin de Vecker Par 1923 IV

35 The t eatment of inju ies of the male uneth a M

JASTRAM D utsche Zischr f Chir 1923 claxu 70 [50]

JASIKAM D UISCHE ZISCHT I CHIE 1933 CLEXILI 70 [30]
The sug cal it at ament of cowpe is D Schorme ze
RIVERA Clay I b 19 3 u 214
Urethr I | verticula C I Howre and R A HENNS
SEY Sug Gynec & Obst 1931 x xii 392
A case of epispad as associated a th compl te incon
tence Leated by rectus ita phantat A R Tuone

SON Brit J Ch ld Dis 1923 XX 146 Fib omyoma of the u eth a R MICHAELIS Zen

t albi f Gynack 1923 xl 1 123t

Tie leof ac netherapy in gonorrhœiofth u ethra
A BOECKEL and F BRIGER I ev de chir Par 923

I i seroth apy in go o rheeal ureth I s and its e m pl tons A Quenay J durol med et chi X\1 234

Genital Oreans

The incidence and prog s of chronic p t t t B t Thomas and J C Brads all. Therap Gaz 1923 3 5 2 X1 628

Chronic p tatit II F II IONES I Arkansas M Soc 93 x 75

Chronic go ococcal p ostat 1 5 K M WALKER Brit J 1923 : 451
The b ct logy a d acc ne treatment of p ost tic

The bet logy a d ace ne treatment of post in bsces P Fotquiau Arch ur l de la Clin de Necke Par 1923 1 Prost tocale 1 s E Sciany Plcin Rome > 3 z Drat 106

Ret action of the alls an ! widen; g of the ureth a in plasms f th provt t A Cosace co J durol med et lir 1923 x 1 226 Infect o I post tica lenomata A ASTRALDI Arch

urol de la Ch d Neck r P r 923 31

I ope able pro tatic aden mata A BRIGOTTE Brux ell s-méd 031

nd rad m th py of hype tr ph d Roente ray p t tes H B Purtirs N York M J & Med Rec 1923 C 1 272

Mode no re y of the postate gl d O S Lonsley
Bost n 1 & S J o 3 cl x 441
I ttctomy W I Birkows I E C Burkows
N L M J & Med R c 1923 c vi 6

Prical and utrat b t t ct my and the che f oper t n types I ca es R V D Y Calfrin Stat J M 923 x 1 37 Trison 1 the permate of with g gen 1 the estile tripot 1 two ares II W Michael Sug [51] f the testi le Gyn c & Obst 1923 x 1 373

Tert ary syphilitic orchitis and hydrocele P Ben NARD and J PINCHART Bru lles mid 1923 in 1170 End result in maligna t dise se of the testis W B COLEY Ann Surg 1923 IXXVIII 370

The t eatme t of go orrhocal epidimytis with intrave nous inject one of sodium todile L T WRIGHT Tork M J & Med R c 19 3 crviii 202
Tuberculos 3 of the ep dilyms S R Maxilver and P H Waldychmidt Minne ota Med 1923 vi 492

I F bromy ma of the epid tym s II Parafinoma of the e t ticul tis u s J S Lt FN TAEDT Surg Gynec

& Obot 19 3 xx vii 36 The grafting of a vein in the va deferens B ANGIL 10 and G BARONI Arch stal d chir 1023 Vii 277 [51] Traumate ruptue f a va co 1 1 18

Miscellaneous

The present cope of urology H C BLGBER I \m 023 lxxx 793 The reasec tion constant of Austin Stillmann a dean Slyke R LANZILLOTTA and G COLOMBET I

Van Slyke R LANZILLOTTA and G COLOMBET J
d l m d et ch 93 1 09
Furth observation 5 0 th blood p essu e in cases of
u ry ob truction V J O CONOR J Urol 1923 x

135 A se i pneumatu a due to the pneumobacillus of Friedla der Trif E or and LEPOELY J du ol méd

923 VI II7 The onificance of hamatu is in childre I D Lee

BRON A h Pediat 1923 xl 607

Hamatu ia ith tapty lococcamia Gribekoves Arch mid belies 1923 ltt 1 626

U ocyst c neoplasms ca e report with a comprehensive it ye riey C W Jefferson I to nat J Med & 5 g 93 xx 38 C) t phy n the d gnoss f u logic conditions I R Sisk W scons n M J 1923 x 160

Shado pr du ing media for pyelog aphy I Szano Bt kin Chir 93 t x 39
All frithed e fith r tgeno cope in the di gno i
of urin rv calcul J L Tabs Am J Roentgen 1

19 3 x 7 2 Acute gonorrhoe W F Mckenna N Y k M I & Med Rec 923 1 95 and pe m ganat L BOLLANGER J LLD.

d ol mel et chi 9 3 1 90 and 1 Morros T meent f chom g no heea W H Morros J 14 K d Rec 9 3 cx 92 D ca of the ppe ut y tat with ut refe able symptoms f Tree d V J O Covos Ved Clin N

SURGERY OF THE BONES JOINTS MUSCLES TENDONS

Am 0 3 1 420

C nditions I the Bone Joints Muscles Tendons Ftc

P ntabl doctible definites f Flihood
FW luxer vilant M J 9 3 x 804
Rec t exist to toth grot the Bot en inf
v L J D Lyrix Med J Mut 1 921 x 760
The effect f heat o 1 g bots A NESSACM
Bet z kl Che 9 3 cm 221

Cvet d sease f the bo es a study of fitee cases An until the natural history of a gant
An until the natural history of a gant
Clim of bo W S Store and J Fwice Arch

Thed so tev leofold tube culm in bo ead to t

tube culosis. P J SCHULTE Zischr f orthop Chir 19 3 xlm, 3 8

Imn ng treatm t of po t typh d bo 1 st by mm uato 1 P Tr ozzr A n stal d chr 1923 1 845 A te steomyelt I Segovia Ach de m d A te steomjett j oeboott ten ut a. o crug yespecal 9 3 11 541 Th p bl m of pyog de se in bon C Bennett Gla w M J 19 3 113 L ca e f my t oe if cat s B J Gallagii R J Am M A garly 40 O te tisd form as S R Curvi Guty I Ollah ma SEE M 1 M \ 923 93 ct al tsis \ Curci Illin F Lom

F ct at tast to the first proper of the prop CI fton P t therapy hro a thritis II Γ BL TRUP Ut k f Lag f q 3 l x 42 hro athritis II I s \ d ases I g rehead reheat the ted by tra ti ular jet n f ti, coe u rum Veyray

lull et mém Soe d l d P 93 xh 60 152

T be culou thrit 3 d f rma Vscoti P l

93 cl 44 le pe cesi th't tm nt of arthrit des tlé th I gh dose frad mem ti T V vrenva w Med kln 10 493 1521 A ase focula t ti lb P B Rorn Proc R 3 Hem tm ith trood i mast d musel S RABIA & LARDE Piterp fi 9 3 c 3 t moci i mast d muscl D I Subcuta stend rupt B Guentre hen med Whisch 93 kz 742 Mu cle trate stheca se fac l ft ma l Mteller Mue che med Wch sch Mu empy

0 1 for Jeni dorsal kyph C Marry-Z co 1 tldch 93 9 Malfo m t of the rt b tcl m the ~ theog tl R d chi

! atun ftl scapul L \ L \ 93 l 659 cas fel o

A cas iclo ribral h mai m I Prazy B ll tmcm Soc él d hôp de I rt bral h mat m Darchin d x 1 1 38 fm t berul Rhizmic no del a th t C6 med Imm g 3 1 M GON ALEZ ULAECH

T cases of localized meast tice come fort box with tdm t bl p mryl ns C P O B NEF Am J R tg ol 9 3 7 S om f th p J M Jo Sema a méd [53] f(bt) Gyn k 931

1 1 Cntu n fth hu Lf on and H Faton R Osteod dat d ma j Osteod dat d ma j Am J R tg l 923 7 The f t of the gl te s me lts B R Kt IN

hef t of the glite s med a d mun m nd valg K B ag kn Zt chr f orth p Chi

93 xl 4
Ot och drits o æ; en li \\ssbaum D tsche
m d W h ch 93 ! 849
Prost loste man ngf mth | dofth fm fi id pradith py d toult n fth
hp d p t hæmest by Momb rg th d
CULL TO B II t mem Soc d el d P o 3 th d 9 3

S app g k ee F Will D tsche Ztschr f Chi 923 CL IX 408 (e u recur t m O STRACKER Zischr f orthop 1923 111 301 Typ filese of th second m tatarsoph la g lip t A Koemler Am J Roe teen 1 1923 of The cours of koehl a disease d I e thes disease C Ax IAUS Y / tralbl f Ch 1933 1 513 53 VIACS Y trains I Ch 1933 1 313 195, Il tarjai peseju e ca at W Wibern Z trail I Ch 1933 1 04 Sm d fct in th foot that ca dd 4abl ty W K Ilcones Med J \ t la 1933 99

Surgers of t! Bones Joints Muscles Tendons Ltc

Some be at n bo esurg ry R F B BLEDSO Am J Cl Med to 3 xx. 649 If nge t t mv 4 Meyer Ztschr f rth p Ch n bo e surg rs R F B BLEDSO The peet treatment feemy lt alle
I return Med Pas 10 3 n ext 95
R see h t the physical price less 11 (54)

gth te tm nt f j es and d es f th tic l tons
\(\lambda T \) Issue La cet g 3 cc 54t
\(\lambda \) blu tion f nk losed j t \(\lambda R \) M CACSLAND Lines a the true ue f festru tie, t tube culo-

F (BRACKETT So th M J 10 3 331 607
The ir t ent I clro c d I rm g 11 t d seases
Mi sent I A Ste many Med kl 19 3 333

\ kylos testm t by thropl ty WR Mc Arthropl to PS To Sig Cyne & Ob t 19 3 111 al lb m t fo jint Bragard /tschr f

th p Ch 193 h 69 Dite tm t lischem cotatr by f pl t t fm scle R Gorista D tsche Ztschr f

th 0 3 1 1 00 5 5 bit test 1 15zel musel 1 the bse 1 ble t plat STRC LR Zisch f Ren truct I the tlemb by the lage th first met c rpal O \vzzt 113 h

The te tm t f col by m L Zisch f th 1 Ct 1033

pt ru zl 35 Thial fitt dse l te relf J Fraser Ed brgh M J 03 Th tchnq fpet f th fi. st Z tralbl f Ch

an t cnnq t pe t f. at f th
t be 1 po dylt E k Z tralbl
9 3 1 9
Th t hn q f th Albe perati f Br
tabl f Ch 9 3 1 3
Th Mbeton rat th t atm t f P tt d sease Th Albre on rat 1m J S g 923

pot ft cases J W W 180 Shift fth sarop list thight Kec Zth f thip Ch o 3 1 8 The ft d f lk th t im t fp list t polimy lit H G Zih fp hes gas zi 6

Ch 023 zl 64

Solution of difficult to blem in cin plasty G Bosch ARANA and F WILDERMUTH Rev dorthop 1923 XXX Operati e t atment of g nu recurratum STRACKER

Zt chr f orth p Chir 19 3 xl 79
Plastic reco truction of the knee joint STANISCHEFF

Rifo ma m d 1923 XXI; 918

Rem val of the patella t n plantation of the p tella of a c da er with the surrou d glaments after fi t n 1 alcohol result after fou 3 a 5 R GRECOIRE Bull et mem Soc d chir de Pa 1923 al v 364
Th f ct nal prognos of te don uture (54) L LANG

Md kln 19 3 x1 530 T ch que of a throdesis f the joints of the foot 923 1 10.0 MAKAI Zentralbl f Ch

Astragale tomy (Wh tm n oper t n) for the rel ef of ce tan forms of p aly d f et P A McLingust N O leans M & S J 9 3 l xvi 138 Sp mall la w dg teotomy in pa alytic club foot H Teste Ze tralbl f Ch 1023 1 120

Fractures and Dislocat ons

The diff tat n of prain fractures a dico gental anomales. I T Ruck Therap Gaz 19 3 35 xxxix Modern tr tm toff ct s F Sourcevil o Ann t 1 dichi 1923 ii 91 The t extme t of fracture R II MILLER J Nat M Ass 93 169
The respondent of the second for the d lame tof

scheme co tr cture A Schunerr Med Klin 1551 Reringd loat na fthe should t t ted by psu
P MALCLAIRE thaphy dosteop n t l graft B ll et m(m So de ct. de P 923 xlx o Repo t of a c e f s m ltaneou l t on of b the dsof th clavele T Beckman Acta chiru g Scand 9 3 1 1 56 Supra o dyl fractur f the hum t eated by Hook

ext slo A J CUNNINGHAM and C E CORLETTE
Med J A tala 19 3 29

Is lated fractures of the condyle of the humerus CLAVELIN Rev de chir Pa 1923 xiii 5 [55] Ruptu e of th tendon of the extenso 1 gus pollicis foll wing a Colles facture A P C ASHURST Ann Su g 1923 laxvan 308

Fracture d location of cervical ertebrae G BELL Med I Austral 1023 H 172 Fracture disloc t on of the ertebrae J E THOMPSON

Ann Surg 1022 Ltt 11 260 Pneumococcus arthritis and lu tion of the hip in nur I gs L LAMY a d BENOISTE PILLOIRE Presse med Pa

19 3 xxx 75
The de clonment farthr t in the hip after the reduc tion of co genital luxation Nove Jossepand Lyon ch

The reduction of recent transcervical fractures of the ne k of the femur before o teo vnthes s M ROBINEAU and G CONTREMOULING Presse med Pr 10 3 vvvi 780 Avul in f ct e of the l er trochanter

Deut he Zischr f Chi 10 3 clavit 266 A ca of recurring p tellar luxation with genu valgus G TRITTO Rassegna internaz di cl n e terap 1923 iv

The mechanism f the production a d the treatment of transfact e of the patella G Trirro Riforma med 1923 XXXL 895 The diagnos s dt eatment of factures of the leg C L ANDRUS U S Na al M B II 023 XIX 32

Orthopedics in General

Twenty first epo t of p g s in orth pedic su gery R B Oscood R Souther H C Low a dothers Arch Sug 1023 V1 4 5 s in orthop d c diagn s R H SAYRE T I wa E 3 IN DULLIPY A SHEET STATE OF THE STATE OF THE STATE OF ati J M 1923 IV 80 [55] V c us c catric s of the limbs M Van Neck Arch f and belges de chir 19 3 xtv1 45 1561

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Vessels

Ch ge in the blood p essur de t Ch ge in the blood p essur d e t perati e p o-du es E Koevig D t che 2t hr f Chir azi 923 187 The art I groov s of the | m the gene is and p thog me the DE MEYENBURG Re med de la Suisse Rm 9 3 xlm 497

eases I spo ta eou ruptur of a teries P Box NET J I M RIN and V NIKODIEVITCH LYON Ch Rupt 566 9.3

Rupt e f the abd minal orta death from ac te i
t i b tructi C Nicony Brit M J 19 3 is 413
T m i ca eu ism F Punguna Ach. it i disch 19 3 \ 550 Sept c po t l th ombosis W I Smovien a d G Schwartz N Y kM J & Med R c 933 ex m 354
Thombos I the vessel I th leg d the mesenter c
essels M M Portis Med Clin Y Am 19 3 v d the mesenter c

459
A critical e new of th sung cal t eatment of embolism of the trantes J N J H ETIEV Ed burgh M J

١

The m grat n ia helli gme tiom the ferory ca to the right pulmonary tery case report E C CUTLER Mil Su geon 1923 lii 264 Ham gi m with calc ficat n p cope tive and pot ope tive ray find gs H J RAIOLD J Mi sour Stat

M A 19 3 tx 318

The gi lanat my of the es els of the pen hymat ou rgan A. MELNIKOFF Deutsch Zischr f Chir 10 3 class 160 [57] S gery of the blood vessels J Goyanes Presse med

023 XXII 777 Experiments n the infe t us origin of thromboa gutts obl terans a d the solat n of a spec fic org nism from the blood t cam H M RABINGWITZ S g Gy ec

& Obst 923 Exevn 353 Gang en of the toes—the results fe darteritis obl ter ans M M I ortis Med Cln N Am 1923 VII 455

Blood and Transfusion

Th eff ct speptone with peripher 1 culation J P SDMONDS a d S W RANSON J Expe Med 1923 III 275

St des fl ghuman blood cll F R. Sabry Bull John II pk s Hosp B lt 1923 277 The a two g l ti g cti n f the arse benz is on the blood T INNI D VIS 1 J MELLA BY La cet 19 3 c 555 Tl c g lat ng t I hypephyseal et et A HANS M STEFANOVITCH and V AR OVLIENTER P esse mélla og v 3 Th tr tme tof ham h ges by oe tgen di tio fth pl n A New Grony t 1923 135 [53] Discuss fith blind (client r w) Med Sc Alst & R 93 \ 47
Report f c e ff p rahem rrh as M Con
1 h Oghth 1923 | 47
Bloods up h D \ Creco av J Lact 1923 |

Anewblooder the sabo Krov Offi 'V h mil' Wh hr 93 lirk 809 lactrs fit gblood grup nadt din K. M. lysen Tistly W 93 r 98 llood tin h pet the peal of the use f will blood K. H. Moore Tix ef time use so stat J M 19 3 300
Tra f 5 n through th m! 1 n case port J
B Smb y So th M J 9 3 x 6 f
Blood tra f n a t i f 45 cases C H Coren a
[58] [58]

Lymph Vess Is and GI nds

Fupe ment with II of k disease in it imptitop due tima throp is a lither mo keys W. J. Cer. NING AN d.K. MCALPIN Arch I t Med 1023 X

Leh ococon of the lymph gland f th n ck t Ech occess of the lymph gand the new Control tail he 1931 93.

Raith raps I the culu lumph nodes. P. Prissov Calfur Step J. Q. 3 xu 378.

The first fith Xrv pon the hist 1 yof then dins mecaes (lymph i pathvas lu dhyair tind night tim till fox ID I Falter J.R.).

Day of The typog phy fith a wall of the timal it. Imphades Ith teho Ither topi Jir 72KIW 1 Tkst kiM Jo 1 13

Malen td are 1th lymph nodes. S M II I J Lact 1013 5 tl 453 Change ath f males 1 l lymphati le kæmi OB EMAN Ats hr f Geb th u Cyna k gr k x 1 3 Flph t [thel | Im D Groups Rfm md 193 x 1 88) npaat Jeph tsi I ymph t ? tru t TGr \m_J\fSc 193 lti ∞

SURGICAL FECHNIOUE

Op atl e Surge y and Te hni jue Postoperati e Treatm nt

It half I h limp tin bed for troph ds to base Liters I; chr 93x 405 Lat fict figure wo dh 1g h Propins 2nt lbif Chr 93l 28 The gant 1st the tipotper t compl The gnt it tmet i potp at IWRIL JM so i Stat it tme t fpot per t 1 15

t pe at fo M C DE GARIS Med J A t ha to s 54 Igcmplts P t per t Γ SCHNETD 7 tall I Ch 0 3 1

Antis ptic Surgery T tment of Wound and I fe tion

The wich mith rape to pept it as fithe q pELAQTURE 1 Spirit 93 at pass with dy EBAN Mehmed N t pais with dy E Ban Vi pass with dy L Bivat Vi n mea Winning of a 12 F35 mt 1. Undownto Minning of the Minning of th t th I 1 b d' lle apdreco ry AL LAVE B ll t mein. Soc d h d P 9 3 1 53 Ath adti tm t III S vi 93 Tv 36 Tt s J C Wilson It t J M d & S g 93 XXX 39

931800

Ttan CTBRAR Itmt I Med & S 8 Mgn mslpht mt tt JMNs Ned IMaaduh Geeesk 03 x140 [61 Thu f the serum urg yad mdei Llugtii Arld med eem L. L RUTL Ar ! d med ciru y e-pec | 93 The tempt floor gg \An\ isri

Bru lles méd 943 The time 1.2 pp rat poces es the td at g OR 1 x Ze traible t Cho o 3 l 54 dustre that the transforment doubter the these speech w f H Lilleville M Streen o 3 l 1 kg. Streen 9311, 6
Noc t tm t f cae flocalh d tet nus
M DI D beck Elsch f Cl 931 274
W d f th Imbs from fragm ts f gl ss f 1 L d G Dicom J d méd d B lea 9.

رې ۶ ۶ w 1 of th foot W C HERY V C 93 354

Anve the ia 1 asth p bl m E Bat (\ / t lbl / Ch

Solx th W æsth t V Weiss D tech med Weh seh 9 3 1 85 Obs rs ti Testhes th potf 500 I cut 5. ses B k poper B t [6 Brief p th th d that hi d A K N Sector Control of the 931" 161

[61

Some modifications in the technique of pid all narscome modifications in the technique of pig at high-thesia. J Audiebert and Ber Ardbeig. Re. franç de synéc et dob t. 1923. 460. Spi al anaesthe ia. Oudard Jean a. d. Solcard. J. de

1027 151 134

Spala whe a and art r lp s I VIRCILLO Experi ces with 100 ct. I pl ch ca a the

Lupen ces win 100 ct. I pi en c'à rethe i d by the kapp meth d E M 102 De t h Ztschr f Chr 023 lvt. 37 [62]

Rect l rethe in children M GUFISSAZ DE DARDEL [62]

Rev med d 1 S is e Rom 923 1 417 Local anasth J M Willis N b ska State M J 03 34

P ecautions in using I cal a asthe 11-report of death C C Eves A Otol Rhinol & Larying 1 1923 100 1177 The i cl que of in lucing tru L asthesia of the s ;

r rm vill rv nerve by the posterior palati e d ct J U CARREA Semana m d 1923 XXX 744

Advance in blick a æsthe i cl l g an org techn que fil) cti g the superi ma illary ner S L SILVERMIN Dental Com 1923 1 1 974

Surgical Instruments and Apparatus

TI sharp and st ile sc lpel W W BABCOCK S rg Gvec & Obt 1922 1 189

PHYSICO-CHEMICAL METHODS IN SURGERY

Roentgenology

th lat 1 po tin d th method Obe at f th n l t gall bl d ler fe mu t as J THUSE I KER dI LOL Im I k the ol 93 68 The blacal fit f the octgenty Perthes [63]

St hie th p q 3 1 738 [63] Th bol mc ton fth r t n rays III Th f f tof rul t nm thods sen bltyt th rv E

Petray Boch m Ziechr 0 3 cxx 353

The b lo c 1 t of th x rys th fl e of
x ytr tmento the mplem to to thof the blood of ca pat t C \(\Gamma \) Cox \(\text{Am} \) J Roentg of

9 3 x 830 It at of mtg ry lorgene i? I SEITE Mast h f (b tech (yn ek 93 li

Stmlton dparaly f mallilyme fthe oetg ry II Lyp m tlr a hon theg ung bo e fahlt ict V II) wass St hien 516 the p 9 1631 An malexperime t with eg dt r tg tmlt

g dose ne c ma \ THER I SCHIZ I tchr G b d Roentg t hle o 3 t 9 [64] mptts The dag otcu f rum fr m ca The dag of the little that the design of the little to the the little to the little that the little that the little that little little that little li [64]

de med y rug C a 93

A new f the peent tatu fd pr ntgen the apy C Holzyrchi Am J R ntge | 1923 476 [64]

C HOLENCEIT Mm J R nige | 1993 476 | 694 |
Deep ro igen ther py a d skin r ct o P IDLE
BLONG Am J K enige | 9 3 X 745 |
I th r b at at | 60 fight lige Y ray
R H Witturer S of I V J 921 427 | 694 |
High olig Y ray therapy months exp inc.
S MOORT South A 10 0 | 4 and 10 fight lige Y ray
Moort South A 10 0 | 4 and 10 fight light li more D 1 Kerrii and J P Kerrii South M

Roentg n inj ies d | p therapy W LATZKO We kl Web chr 9 3 xx 1 95 [65] Some nd sirabl eff tsofd p mpth rapy C LAIL-Nel ka St te M J 93

el ka Stite M. J. 93 3.
The testment foreignit cation with hypertinglet and licuit fith a tin A. MAH. Extrand. solut and I cu t II / CHERL Wie kin Wel chr 923 V 129 [65]
The ne crap et of benig oth py C FASTMOND
No k M J & M d R c 19 3 C 1 484 V 120 [65]

Radium

The big lp t fattack fail mry
FER At Stahl then 193 3
C is ft set we of im E

WELL South M J 93 x 76

Miscellaneous

The fide mentiprople frdt tleraps S

Obrt epc thing whif m ta adpair I Hrmww II T chus d I Zurher I Duthmd Wich h 93 1 633

I'm rp v De t he med W hr h 9 3 vl 911

I mang le CIR V g ia M M nth

1661

MISCLLLANDOUS G

Cl nical Ent ties-Gen al Physiological Conditions

Shick L C FEEMSTER I ternat J Mid & Su 9 3 xxx 38
Ta mate hock f in 1 who t Quent
DUVAL d Morotor Brux lie med 19 3

Expe in talco t but n t th pathog m te hock A M Doct orri \ n tal d hr 923 Blood ves lequib on lbk Eperum at lie

The expression of the expressi a h R Sixon d R FONTAINE R v d ch r P

913 1 448 Ob r t

Citb is i

Can rous disc ses C Lewrs Berhn Schw bich rich Verlagsbuchha dlung 93 A sample propition scatton in malgonant tumors H Kanv Klin Wichnschr 1931 364
The important fithe rate of ed mit tion of the

The important I the rate of ed m t tion of the ervibit cyt the diarnosis of c ms and in the de t mi to fi eed m from ecurre ceaffer pe to 0 Graca ar Arch f Gy k 1933 c. v 421 [66] Experime t l t d son the m dificat in so f growth if m u t m rasp oduced by dis tegration prod cts f the

mu t m rs p oduced by dis tegrat on prod cts f the d cn e gl nd F Evert Pr g de la chn Madrid 19 3 xxv1 54 Th tra pl t tion of a Ro teen raved ca ci m

The result is the most as the result of a common Elisser Fitch and Gib de Roetgren this 1923 States and Gib de Roetgren this 1923 States and the result of t

BERG klin. Wehn ch 9 3

The lucofth tademlract thed gn sis of rg cltub loss F PAROD P l hn R m 93 xx ez pt 1 Cl lfd dr 154 gacaltuber l L LOTRANTE Pol i R m 193 vxx s h 77 [66]

G neral Bacte i 1 Mycotic and Protozoan Infection

The treatm at of a speal tubercul s with bydroly tes of animal protein R. Haff M enchen med. Wchnight 19 3 kg, 661

The cu e of experime t 1 steptococcic philogonol with riva ol and willin. J Moroemboth od R Schwitzer

Ductless Glands

De tsch m d Wchnschr 10 3 xlix 745

Mediast nal tum th ecognit o feunucho dism M Fizas Nede l Tjdschr v Ge e sk 1923 lxvi 16 4

Surgical Pathology and Diagnosis

Cell I r mm nuty and a cpth lity to d scase A TERLHANSER nd H RIEGER Deutsche Zischr f Chi. 9 clxxx 78 H tol g.c.cha g n hum n tis fit th jecti nof paraffin W HUEFER F ankf rt Zt ch f Pathol 103 XXII 68

He pitals Medical Education and History The toching of bit tres a digyn cology | | S FAIR

Bunn Brit VI J 93 11 349
The newe 1 m dc l'education Brit M J 1913 11
354
The high a goal tradit ons f th F ch army three
destinem hed fixe es Ambross P & P cy a d'Larrey

FORCUE. Bruxelles méd 19 3 986

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

FDITORS

TRANKLIN H MARTIN Chicago
SIR BERKELEY MOYNIHAN K.C.M.G. C.B. Leeds
PAUL LECENE Paris

SUMMER L. KOCH Abstract Editor

DEPARTMENT EDITORS

DEAN D LEWIS C neral Surg ry
CHARLES B REFD Cyn ology and Ob set
LOUIS E «CHMIDT O nito-U nary Surg ry
PHILLE LEWIN Orthoped Surgery

1 Authors

ADOLPH HARTUNG Roentgenology JAMES P HITZGERALD Surgery of the Eye IRANK J NOVAK Jr Surgery of the Ear N se and Thro t

íı

CONTENTS

IJ	Index of Abstracts of Current Literature	111
111	Editor's Comment	*
и	Abstracts of Current Literature	87 169

Bibliography of Current Literature 170-188

Edit i mm ni thu hould bearn to Franklin H. Mart n. Edito. 20 N. Mickigan A. e. Chicago. Ed. v. Land Ru. n. Off. 1. 20 N. Mikigan A. e. Chicago. Illin. U. S. A. Publister f. et Cre. (B. et n. B.)) ere Thabil & Co. 8 Henri n. et S. C. vent Gard. n. London, W. C.

AUTHORS

OF THE ORIGINAL CONTRIBUTIONS WHICH ARE ABSTRACTED IN THIS NUMBER

Adm LW 03 D yn P G 98 Man F 33 D ch C J 13 tigle 13 D et C gt 47 LatnI 5 is 1 M 1 m M G B Val t 1 1 Ft W I st rm ١ 3 6 le JB oύ ь 3 c C B B brock 11 11 10 a rd F Bly H 3 3 R 5 Bé i L F est e Ì 6 R 0 88 I gue 11 Brt nd P enk | 1 Bzac 48 Funk I o Funk Ise Jeg Ise II J 1 nt F t de II Gg LT Blai 150 Block ijt 57 Catt W H B BE Gjt 6 R 1 93 3 G n H ő R H o Rw G bso C L B w J O 04 B vd (L (4 Gff d S K 89 B m I 94 God d H B m W A Coethal T R Gold ten M A 89 Bntl \ F Go set M A 5 B h G aham F A 33 ő (aesRC w G É 04 BL1 CaP46 ClgnP CtRG n J 99 C thre C C Hagg d W D Carre J U H tma H R C sody H ch E 33 °ï' ä j Hmpt dBL 9 .3 Chtln o6 II nz R oo Ch e D Heschb g F Hoel 1 68 150 CILJH 94 Clame R 9 H a B M 34 C 1 1 1 B 4 m J 47 C pé h II lth S 89 č. HIL ht G -t t čiil da J H d 09 C tt G Йвв 6 č ud P ro Hym LICW ke H 44 5 Croly H \ G J gham J H m L H o 0 les 47 Dhil ree L Jme G Joly J S Judd A M 1 S D 49 T L 44 1) V C I) gling O j) 67 D M nel 96 n E g no ° 11 98 mps P Kpp W 98 Kell W L 99 D Ď Dind AU A U 157 Mot 0 00) 54 vi ldso

Loc cck W or k bs () S 30 L pf brg 66 Lapo te G L Larım II J 1 4 L k wick 5 50 59 Lat jet 1 136 Legu u 44 Ä 16 Lerme L h 98 99 Lenche K 27 153 Le esq e J 16 1 lm I L 164 Lo khart \fumm y J I 09 Lodg S D Loc pe W T 137 M grou J 64 Man I C 80 M the P Med e P 5 LL 38 MGHEC WkrWR 3 M klen P 59 Myrk A. Utrk F 5 11 h 88 v b M lb d Mocq t P VI od R 5 WgJA88 WJRA62 WonJW12 MortnIII 44 M ulong t Dole ∖ kaha a W \ ujoks II 3 N wm n G 69 45 P t 1 1 59 PpnE 4 celier A o Pt 1 154 Ptrso H J 67 r tH 4 I ma II H 54 Prola 1 2 Phillip W C 8, Pl yfan K 00 PIKJO PdsF PyH QukD 3 6 4

Rain y W R

RdHA

Regad G L. 10 Re dall J 138 R yn ld L R Rich \ R b rtso1 B 164 I chr H I 5 R ger A R Rohd C 7 R llesto II 108 R miti C 141 Roncal B 16 Rowntree L. G Rose th I \ 56 R sel 159 R k G 11 19 Sale ! Sale! 3 Sano M 166 S nty 08 S 37 R H 152 Sch beck 1 Schull f O 157 Schar OH 3 S tt 11 11 143 Sefrt F 07 Sey l in 168 Shljiis Smith CE 1 5 3de W H 85 So rel E South m A. H 36 peed K Sp cll M Sprit F Stem F St wart M J Stuber B Tayl r F B Thallum W Tu ne co D 57 U ger M 9 121 D T 88 La rts J 27 ie t A o log! L Volpe C M 10 WklyCIG Weber C Weil 48 Nem 1tt WithmrP 97 11 1 ky 4 0 96 W llem C 148 W 11 ms c's

10 g H H 43

CONTENTS-FEBRUARY, 1924

ABSTRACTS OF CURRENT LITERATURE

87

88

88

88

98

81

80

0

9

n

ADSIL	101	, ,	. ~	0141-0111	 _
OWNERDY OF THE	WEAD	AND	NECK	Neck	

SURGERY	OF	THE	HEAD	AND	
Head					

Tetd ith Ral m \ edles

PHILLIP W C The D gr s and T eatment f S pt c S nu Tir mbo i BONNET and MICH N Ep th 1 m f th Cheek

Eye M PGAN J A O'ular D ef m Na 1 \ es y 5 n I oly ment 88 88 Days PG Turn y Pect n

H LTH S niB NER O C gental M to F hol P pl Ow g to De clopm t l F alt f th Diat to Mucl 5 YOUR W H Th Lt l gya d D g

c m VILDTC er ng th Sg al Tr tment of Glaucem With Sp c Pefer ne t Vidh d Ill tla GageThr qu MANN I C Som S Leto th Embylgy f

Co tal (.re c t CI FORD S R d Cassiny W R Some U e of the 51 t I amp

Ear

Capster M A Th Cha hat n I D i fmth St dpot flt Pthlgv I c t nal Tets did ggy IE kis G I O∘tit Def m dOt los HEMPSTEAD B I M t it W th ut Invol ement

Nose

Ith M III Far

M RC4 J A Ocul D ef m 1 Asce sors I NAIRC IN IF et es

B t I 5 Th R texp lamntn f the salS e by I I jet is UFRMId RM td th U f Sct nin D

M th

DENET C ad Mic n I Mac of th T gu

Throat

y U e ogn d1 th 1 g cal C nd tion W th Ht Ig Ist dy in Stee Cases

Neck

PARCELIER A VENOT A and BONNIN H Lateral therr t Thy d a d The Tumo CZIRMAR H A Cl cal St dy of Go fer

ø

b

93

0.4

94

c6

96

g6

97

97

97

9

o\$

98

98

QQ

ADAMS E W a d CRO SLEY H N A Limit d Out b k of Acute Go te in a Children H me

Bray I The Ounine T tin Hypertlyr dsm Seco d Report

Bower JO and CLARK JH Th P si tac f the Thy 11 Gland to th Action f Rad um Ray

SURGERY OF THE NERVOUS SYSTEM Br n and Its Coverings Cranial Nerves

WILENSKY A O The V le of C 1D ompres 1 eOp at on

CHATELLA nd DE MARTEL C rebral Tum r S dden
O t f Symptoms I ll g I umb Puncture
Rel i G en By the T ndelenbu g Post on Obtained by D p X Ray Therapy

f th C te a Magna Aver J B Punctu WERTHFINIER P \ Re w I the Pe ent Treat m nt fT jem 1N algi

Pe inheral Nerves

BÉRARD End Res lt f \ tu of th Uln \ with Ana BFR RP Lat S t fth Uln N fth Medin by Impl tto 1 a C se fth Ulna a d Median v rv sby a War Wound Ret ration of Tu ton 1 the Uln \ rye Alo e

Sympathetic Nerves

SETFERT F Sympath ctomy Svery Wound of the Axilla with Incomplete Section of the Br ch ! Plexus Am ho at on of S n 88 nd C It ry Disturba ce in the Hand Fol 19 I w g Arterial Symp thectomy

The E d Re ult Three Years and T re

M th Aft a P femo al Sympathect myf
al I at gll t r Ulcer I ll 2 g Sect on of
the S lat c e

KAPPIS M Iuth Fype ce with Sympa Case f Delay d Consol data th ct my Ul rs fthel g Ft

SURGERY OF THE CHEST

Chest Wall and Breast

LERICHE Lympho thosa Co cuts t Clan gO t the A lla in the T tme t of Cancer of th QZ Bre st щ

100

20

11

10

I 2

10

93

13

04

5

1 6

o6

6

7

٥ŝ

T schea Lungs nd Pleura GRAVESEN J Th Pe tPston of the S go 1 T tme t f Fulmon y T be c ! KELLE W L B n h l Fistulæ

PLAYF IF A J d W ARLEY C P G Primary Ca ci ma f the Lun AD cu o of Its I a and D nos

GRAIL M E A Pn umectomy 1th the Ca te v Hrsz R Total Pemov 1 fth Left Lung for B n

chi l Cann Spigito f The Sign ficaa d Me ha ism of Produ to I the Pulm na y F dings I llowing the Intrapent e 1 d I traple ral Injects

fC Il la and I tFleme ts WARD E Mim ge Pegnancy I it nto a d T bercul sis

VORON M The M geme t f the Pegna t Wom with P Imo a y Tube loss

SURGERY OF THE ABDOMEN

Abdom n I Wall and Per toneum

Broomsoo J C Op tons f r Ingua l H unde Local Angesthesia DESC MPS P Th Teatm nt f P nt eal T be

culo 1 by Laparotomy and Hel th apy Bo Er B! ry Pen ntis Naujous H Experim tal St d s the Effect I

th I trape to 11 ject n of Ether WE ER C De th F llo ng th Use of Eth un Diffuse Perito ti

Gastro Intestinal Tract

MS WA dW NE KA Castric Syphilis
AR 1 rt fTw C sc P ed \ t mically BAMS IV A LARIS OR W I Syph h f the St m ch

BOWN GE FUST RIA G B H RTHAN H P
dRow tree I G T \ phrtis n Pyl r h phr tis n Pyl n d D od nal Ob truct n R n l Insufficie es

C mpl cating G tn T ta y G nsov C L Acut P rf to s f the St m ch

d D d num Gta o ta The Ral fth & gu Fb is n the S greal T atm nt f G tn Ul

FR ENKEL A I the D gn s f C and Ulce t f th Stoma h by Mas f C emat g ph E amunat nb th Roe tge Rav

CH KVER D The Ope at C hit v of Cr n m of th Stoma h

JEME EZ GAR TA L I t t al Occl s Biliary Calcul s ROHDE C Th P thor nes f ChocDod nal

Ulcer f m the Po t f V ew fth M cha of th Duode al Bulb An t mical Dispos ti VE EE W d JUNG EMANN I The Symptoms ad Et 1 gy IP t p rate]) 101 t N 33 av ol tUl r M UCLAIRE P The Us f Se a Grafts liter the Rem al of Membra es Membra ous P ra Rem al of Membra es colt pdP isigm dtis

ROLLESTON H Ul erat: C ! tis

HORDER T LOCKMART MUMBERY J P D CESON
W E L and Othe s Ulcer to e Col tis LOCKHART MUMMERY I P The T ching e of Re QQ 60

109

12

157

111

115

115

115

116

1 6

7

118

18

10

t9

110

12

٥

sect o a d'An t m is of th Col n for Tumo FORGUE a d MILHAND Th Creul to n of the Sg

m id ect l Segme t BUTE L \ Ben Str tu sof the R ctum ALGLAVE and SALEIL CA r fithe R ctum Tr at d by Radium Therapy Alt r Excl sion of the Dis-

tased Int stinal Semment Cond ton of H alin 100 One Year Late DRUECK C J Tube cul softh A usand R ct m 13

Descours P and Turnesco D The Lymphat of I ss is of th J junum a d Ile m

Liver Gall Bl dder Pancreas and Spleen

EINHORY M d Laporte G L I dig carmin as a F notio al Perm b hty T st fthe Lie FRIEDENWILD J and GANTT W H Some Obse to as a th Phenolt tra hi rohth ! Test as

Means fDt min gla erfu ction BLOOM W Th Rol of the Lymphat cs th Ab sorntio fBl P em nt f m the La rin Carly

Ob tructive I and e SIN L J Tumor of the I er R sect n Reco ry If t I gic E aminations

LIVIR Z W C MEYER K F RUSK G Y TAY
LO F B od EASTO I Pres nt D y F b-I m in R g d to Gall Bladd I fections

d Lévesour I I d pe de t Bil ry Ret nt on D ring Con al ct ce i om an Let ru of 5p rochatal Origi Norm ! Pigm t ry Cholamua and 5 m Itaneous Choluna

D HL IVE SEN E IN SCHIER ECK & J Cong s f the Bile D ts t 1 At es a and St HAGGARD W D Th D gn s nd M na me t ISt sin th C mmo Duct

Mc la Hun L. L. Rour fth Cmm nBle Duct Mornt of P d Costa Tini H Co tu o 1th Pn ea nd Fle Traumatic Cy ts

WHIPPLE A O Pa cre t c Asth u IR SE G Y E d thel m of th with a Re ew f

Spleen ASt dy of Tw Ca with a Re ew the Lit at e f I ramary Visignancy of th Sple n

COUNACD P and CLO WE R Hepatic F D n g Pregna cy

Miscellan us

Uterus

Co ENHAVER N H Intra Abd man | Herman STRATE D C S bphren c Abs

Monthson J M Ele t noith D phr gm Uni lat rai Phrenu Pa lyss A Rad I m I Study with Special R f enc t th Diff tial D g

ROJE TEL AN WT chaig of Ind to g law thousa f the Abdomin I Sympath tics 150

GYNECOLOGY

Uterus LEVEDY I ad GODARD H To Lymph tes 1th 12

22

123

123

GRAVES W P The Olshausen Operat n for Sus

FARRE S The Results of a Series of Uten e Fibromata Treated with R dum

CAVIGLIA A 1 Tuberculosis of the Cervis of the

FALRE J L. The Treatment of Ca c f the Cervix of the Utera

pens on of the Uterus

Uterus

Labor and Its Compl cations

Horn tal

SCHWARI O H and LEES O S Sc polamine

BO TAR B C and MEEKER W R The Value of

Sacral N rve Bl ck Anasthe a in Obstetnes

COPPHAIS T R M mual Extr et on of the Hace to

Morph e Semmarcous Report of Its Use in the Th d Thousa d Del eries in the Barnes

1.10

231

I 12

of the Orein	-3	Odetares I to a dominant of the Committee	-
	24	ACDEBERT J L The Uterine Scar After Clesarean Sect u	133
Do Alpson M and Can't R G Ob at a ns on Fity Cases of Carcinoma of the Cervix T e t d		Puerpersum and Its Complications	
with Padium	4	BROUBA The Modern Concept on of Puerperal In	
PERROLA \ The Treatment of Inope ble Ca c of the Cerv x Before and S ce the U of Rad		f ton Haven F The Diagno : and I rophyla is of Puer	133
um 1900-1918 Monop R nd Gosset M A The T time t 1	25	peral Fe er	133
Cer co-Uterine Ca r by Hysterect my F l lowing Radium Therapy	25	ALFIERI E On the The apeutic Vican to Combat Puerperal Fe e	133
AUVRAY Rare Forms of Sa coma of the Uteru	26	THALHIMER W a d HOGAN B M Puerperal Ser	
VOLPE C Lat Hamo th ema Case of Total Hys	16	si (Bacte æmia) Caused by Bacillus I fl enzæ Paucor H. On the Value of Vacame Therapy in	134
Corre G Four Cases f U t ro aga al Fi tula Foll wing Hysterectom)	25	Puerperal I tection	134
CAYET Two Cases of Uretero ag 1 Figure Fol	10	Miscellaneous	
	126	LALCAGNI P The Urete s in Obstetnes and Gyne	
		cology	128
Adnexal and Pers Uter ne Conditions		BAILEY II The Control f Midwi es	135
Moulo quer Doléris P Th Glad of Intern 1			
	127	GENITO URINARY SURGERY	
HORNUN Int aper toneal Harmorri ages f Over an	17	Adrenal Kidney and Ureter	
VANVERTS J Bilateral Cyst c Ep th lioma f the O ary E t mp t on with Cure at th End of		BROWN G C EUSTERHAN G B HARTHAN H R	
to any E top ton with Cure at the End of	127	a d ROWNTREE L G Tonic Nephritis in Py	
SPINELLE M Sa coma f the O ary with M it ple		bency Complicating Gastric Tetany	104
Metastases C d by Roentgen th apy Aft Surgery	127	CALCAGVI P The U eters in Obstetrics and Gyne cology	128
		LATARIET A a d BERTRA D P Anatomical Re	
External Genitalia		se ich upon the In ervation of the Can ule of	
LERICITE R The I atment f kra ross bulvæby		the 4drenal Gland Kidn y and Upper Portion f the Ureter	136
Symp the tomy of th Hypogastr c Art ry The		SOUTHAM A H The Fi tio of th Lidney	136
Revitatebe End of 1	127	STEWART M J and LODGE S D On Unit teral Fu ed Ladney and Allied R nal Vali mations	
M scellaneous		Lo geore !! T An Estimate of the Inform tion	136
		De ed from the Us of Tests for Renal Func	
CALCAG T P Th Uret rs in Obsteti cs and Gyn,	128	t op	137
W 57	120	BREED L M a d REMDALL I 5 me Observation n Res lt with kid y Functi n Tests	138
OBSTETRICS		DAVIS V C and McGill F C The Relation of the Bow I to B cal & Col Lainey Inf cti as	138
Pregnancy and Its Complic tions		VOCELER K Renal An unam	138
COUNAUD P s d CLOG E R Hep to Fun ton		WHILLMSON C S Some Obs ry to man the Length	-0-
During Preg an y	9	Transplants Pel minary Report	139
Tub reul s s	120	RITHER V R al Su gery by the Sacolumbar An-	
VOROV M The Manag me t f th Prema t W man with P Imon rv T be rules 3	-	PAPEN E. Umm ru I o transcered m	140
Polax J O How th P thol gy Expl ins the Clin cal Symptoms Fo din Let pe Gest 110	129	ROMITI C A Report of Five Course I D	£40
can or supremiar to the first pe fiest to	130	ters C mpl cated by Pyelo ephntis	f41

IN FURNATIONAL ABSTRACT OF SURGERY REYNOLDS L R Th I'r time t of the U et r William C. The Teatment of Lurul at Arthonia

VI

HYAYAY A Empoy no f th Uct ral St nog I I I ng Incomple I Urette cet may I JAKEN I I The P th I g Anat may f th A I all report us G g I Bladder Ureth and Pens Jory J S Tl Ope tive Tetment f Ve cal Detcal Vs ot M Th CI tell ctu f L ti Le f th Bladf I	48 Recape C. L. Th. Treatm nt I Jozel c IP rely b th (ttg / tb) 17 d s 4 I sars J. Th. Praly of I tts Ducas and a Ope L. I c It K i f 10 D x S of the L k e J 10 D x S of the L k e J 4 Fractures and D sploatmons Rocras II L. Fur Case, I I ract e of th Ex 1 rul Co Jbe 1 the llumeru 5 res I. K. Compess. F. Cut of the D rs I mba
I pli mat 1 Car mat f th Uri y 101 d1 You II H ni crr W W Th ke it Obt t dby Va u M tl L ntie 1 atm t f T m r of th Blile JCDD A M U ry Sympt m s W me Pet	Vert bre lath logs a dT c tm nt
RANDALL A IB M bdty Tht I II w I t tet my I tHOD u n n Car fth I ti I R d m	Orthoped cs in General S VRF & H I I rs Orth ped c D gnot 15 SURGERY OF BLOOD AND LYMPH SYSTEMS
	44 Blood Vesset Fore rad Minimum Th. Credit on I the Sg.
Mo row II II Finno ri Spi f Uni II g Duill I is, thy I w r II Th I take Inject II r m Chim vst py OCoo V J I uth Obset onth Blood I es (ess IU y Obstrut R cress V R S m C lus a Dea n Franth Obe at I 4,000 C Go r her T at	To see I Sign 1 a Creat for time Sign 1 a cell Sign 1 a Creat for the Creat fitted and see that the Creat fitted and sade that all leviters 1 a sector R The Sign 1 and the Creat fitted and the Creat
SURGERY OF THE BONES JOINTS MUSCLE TENDONS	SS (RIJE G W. Stder Phut V Hæmr hg 15
RAINER W. R. P. t. Def mite. V te. S. gr. ILe on Childre 16 to 1 d. Drv. C. The clo. Hygroma of the Shelted dB. a. J. vv. E. M. Lu te. Sp. pdd. it. I stan w. J. T. B. S. p. ptll r. d. It. Kelt. t. the K. e. J. t. S. gery of the Bone. J. ts. M. sele. T. nd. E. So. yr. E. J. R. pot. 166 Gj. t. f. I ha.	Ill III
BFZ \GC\ VEIL d WEISM \N N TTER C heal \ that s a d Arth t my	Desjard s A U d Ford I A H dgk 43 D t I ymi hosare ma 15

63

02

INTERNATIONAL ALG	Indies of their	
SURGICAL TECHNIQUE	CUNNINGHAM J H G AVES R C a d DAVI T L An Antiseptic Pyelographic Medium	44
Operat ve Surgery and Technique Postoperat ve Treatment	MORTON H H Tempo ry S pi ess n of Urine Following Double I yelos, aphy	44
BRAHAM F \ Pneumectomy with the Caut y 100	SCHULHOF O The Effect of the \ kays upon the Coagulation of Blood	157
OCKHART MUMMERS J P The T ch q e f Re se t nan l Mastomo is of the Colon for Tumor	GALIAY J Mee! cal Strengthening of the Im ge in Roentgenography	6
RICHER V Renal Surg ty by the Sacrolumbar Ap	SICARD J \ and FORESTIER J Roentgenol cal E plor t by Mea sof Iodized O !	6
OLY J S The Operatice Treatment of Vencal D	HOLZENECHT G What Cau es th Heal g Actio	161
PRASER J The Pa alyst of P tts D ea e and an Ope atton for Its Rehef	PORDES F In Explan t n of the Action f X Ray I It Secessary t \ um Fu ct nal and	
D vtb S D Experimental In 1 ion f th Cad er fo D na e of the A kle Jo nt 149	Growth Stimul 1 on? Morrell R \ The Aft Effect of Ind strial	161
KLOTZ O IERMAR H H and GUTHRIE C C Lndle lts f te l Tra splant 154	I jun s nd Their T catment by the \ R ys	162
Ant septic Surgery Treatment of Wounds and	NABAHARA W Studie A Ray Fif ct AllI H tol g cal Study f the Fate f Ca cer G afts In 1 tel into an X 1 ayel 1 a	62
Infections	AUFFERBE G New M thods in th T tment of	
Merklen P d Hir chberg F Autohæmothe apv in F c losis Pyod m t ti a d Oth r loc l Inf et	C ce June Country June Count	166 67
PAETZEL W The Tre tm t of ly cy neus Inf c	SEXERLEIN and H ELZEL Th Treatme tof Sa c ma	168
to in Spp tng W ds 159 LASKO icki S Th U coll glaS! tonin S	Rad um	
gi lT be cul 159	Bower d Micro Ep theloma of the Cheek Treated with R 1 um Ne dl s	88
Anæsthes a BLOODGOOD J C Oper to f I um l Her a	Bower J O and Clark J H The R tan e of the Thyr d Gl dt R dium Rays	04
u der Lo 1 A zethe 1 2 Schwarz O H d Krebs O S Scopolami e	ALCIAVE a d SALEIL Canc f th Rectum Tr ted by Rad m Th any After E cl on f the	,,
M rph Smi o Pep t flt U enthe Thid Th dDl en th Br Hop	Disc sed Inte t al Signe t Cinditi n of Heal go Yea Late	113
tal 30 BONAR B F and ME SFR W R Th Valu f	FAB 5 The R sult of a S 1 f Ut ne F br	123
Sal Blck Anaesth as Obttes 3 CARREA I U Th Tech is e of I hu g T k	Potey H Surg y d Ralum The py Com b ed in the T tment f Can e f the Uterus	124
A asth a fth S pen Maull ry er by th I st or P I ti e Du t 59	Day LDS v M d CANTI R G Fifty Ca s of	124
Roussiel AN w Te hing of Ind A sesth a. the Abi mi Symp th te 59	P RROLA A Th It tm t of I ope able C nee	
Surgical Instruments and Apparatus	m 900-9 8 We op R and Cosset M A The T eatment of	125
BABCOCK W. W. The Sharp 1St le Scalpei 60	CE co-Ut e C by II ter ctem Fol	125
	LEGUEU D cusso on Cac fthe I tate a d	3

PHYSICO CHEMICAL METHODS IN SURGERY Roentg nol gy

Buts ES Th R t e XR y E amu at n f the Na IS by Fu Poj t s CH ELINA dDE MARTEL C br IT m S dde O et fSympt m F ll wang Lumba P et R lef G en By the T e del b g Po t n Cure Obt ned by Deep X Ray Therapy

FRIE KEL A Ports th D g 1 (Cace d Ule t n of the Storn h by Means of C em t raphic E m nat on by the Roe tgen

Seletti M S c ma f th O y w th Mult pl Viet st et Cu d by Roe tg the py Aft r Su gery

Emnt n Deep Th py Descours P Th T atme t of Pento al Tube

Rdum

Miscellaneous

lo s by I pa ot my nd H lothe py

MISCELLANEOUS

Quick D The Rit V lue of U fit ed R d um

Clinical Ent ties-General Physiological Conditions BRANS W A a d MEYER K \ Gastne Syph 1 s

A Rep tof Tw C ses P o ed An t m cally 104 LARIMORE W J Syphil of the Stomach 104

96

127

ROLLESTON H Ul rat e C lt

HORDER T LOCKHART MUNICERY J P DIC SON

W I C and Others DI rat Clitis	ÇQ	r or rote he hasing	
Buie L. A Be on St ctu es of the Rect m	1 2	KUPFERBERG New Method in th Te tm t of	
RRUEC C J Tuberculo softhe An sa d R ct im	1 3		10
STRALS D C Subparence Absce	,	PATERSON II J Are th R ults of th Op at e Tre time t f Ca c r Bett r Th n I've ty	
Ascout M Th Clinical Peture f Luct Less ns f		Y rs Ago?	10
th Blald r	142	JUE GLING O Roentgen Treatment S g ry	10
Rogers \ R Some Conclus s Dra n From the Observ to of 4 000 Cases of Gonorrhota		SEVERLETY d'HOELZEL Th T tm t fS r ma	16
Treat d1 a P bl Chn c	45	Surgical Pathology and Diagnosis	
BEZANÇON WEIL & d WEISMANN NETTER GOROF			

thoral Arthrit's and Arthrotomy nd I aport as a Fun tional Perm ab hty Test fthe It CRILE G W Studies in Exha stio V Hæmo F IEDENWALD I a d GANTT W H Som Obse rh ce 155 to s the Phen Itetra blorphthal Test as

GACER L. T Lymph t Ob truct Non P asiti a Means of Determining Li e Fun t n Elephantiasis 57 McARTHUR L. I Rep r fthe Commo Bile D ct DESTARDING A U and FORD F \ II dela s D s ase nd Lymphosa com 57 LONGCOPE W T An Estim te f the I form ton De sedf mth Ue of T tsfrR nal F

NAKAHARA W Studies \ Ray Eff cts \ \ XIII Hist I g cal St dy f the Fate of Ca cer G fts Inoculated into an X Rayed Area 162 B EED L M nd REVDALL J Some Obser to ROBERTSON B a d BOYD G L The Toxem a of

Se e 5 perficial Burns LIALIN I L. The Path log c Anatomy of th Ad pals in Spont cous G grene

64

64

MAGROU I The Et: lo v of Ca cer

64

H sp tals Medical Education and History

8 RONCASI B AS every of th Experim ntal I gat as on the Etiology and Pathology f Ca

R ults with Kidn v F ction Tests

f the M d cal Curr ul m NEWMAN G Pe m ts ft by P nt e Teaching

114

117

137

38

160

BIBLIOGRAPHY

	Gentio Chinary Surgery	
17	Adrenal Kulney and Ur ter	190
		181
		81
	M scellan us	181
171	Surgery of the Bones To ats Muscles Tendor	es.
172		
	Ltc	82
	S rgery f the B nes J ints Muscles Te d s	
	Ltc	183
		184
	Orth ped c n G eral	94
/3	Surgery of the Blood and Lymph Systems	
	Blood Vessel	194
177		184
		18
		• '
74	Surg cal Technique	
	To twent	
74		195
	Infect ns.	185
	Anæsthe	185
77	S cal I t uments and App rate	86
	• • • • • • • • • • • • • • • • • • • •	-
	Physico Chemical Methods in S. reery	
77		
		1%
73		186
78	cn us	186
	M scellaneous	
78	Clinical E titles-General Physics and Co. 44.	86
79	Ge I Ba terial Myrot d P tot n Info	80
79	t s	87
	Sug cal P thol gy and D no s	87
80	H pital Med l d H story	87
	172 173 173 173 173 73 74 74 74 74 76 77 78 78 78	i Bl dder U eth a d Pen i C tail Organs i V cellan us Lacy of the Bones J its Muscles Tendors Facture and D I cats Surgery of the Blood and Lymph Systems Blood vesel Blood a UTransfus on Jumpl Vessels and Gland Surg cal Technique Op 1 Surgery of the Blood and Lymph Systems Blood vesel Surgery of the Blood and Lymph Systems Blood vesel Surgery of the Blood and Lymph Systems Blood vesel Surgery of the Blood and Lymph Systems Blood vesel Surgery of the Blood and Lymph Systems Blood surgery and Technique Op 1 Surgery and Technique Op 2 Surgery T I me t f Wou ds a d Infect in Physics Chemical Methods in S rgery R et gen logy M scellaneous Cl nical E tittes—General Phys I g cal Co dt is Ge 1 Ba tental Mycot d P tos n Infe

LDITOR S COMMENT

PERATIONS on the sympathetic nerve continuet percite the imagination and inter est of European urgeons. Lenche reports the result at the end of a year stime of sympathec tomy of the hypo astric artery for kraurosi vulvæ (p 127) and the prempt and permanent healing of a perforating plantar ulcer after perifemoral sympathectomy in a patient with a divided sci atic nerve (p oS) he suggests the application of the operation of sympathectomy under cer tain conditions to veins (p 133) Gianolla sug gests section of the nerve innervating the stomach (p. 106) in cases of hyperactivity and hypersecretion and di a ton of the n rves in ad dition to resection f the le ion in the treatment of gastric ulcer

As time goes by we are able to ceutre a clearer and more definite concept in of the results of the roentgen and ri hum treatment of malignancy particularly of malierancy of the uterus reason of its frequent occurrence and its act, est reason of its frequent occurrence and its act, est a number of reviews touch on this important subject. Future of Part gives a statistical uriey of 152 cases (p. 1-3) including 150 case op retied up on Ofe its this three patient who were only up on Ofe this three patient who were offer a treatment of the forty to one other recurrence devel ped from feur to its years after the operation.

Vionol and Go et (1 2) report the results in thritx ae treated by suggical method upplemented by radium. Of particular interest in the e was the duration of the preliminary application of radium—Four or five days. Donald on and Cantre operate result: fradum treatment in fifty, ca es under pr 1 nge 1 observation at St Barth Jomes Ho pital London (pr 14). Their conclusions are of partir ular interest 1 v rea on of frequent po to cratise examination of both the patient and the irra listed cervix. I even and Godard's study of the kinghibit of the geteros (pr 122) to fumely interest in connects in with the subject of mal_ratins.

With reference (t. \ riv \ \text{ and ra lium treatment in general and the meth d f activn and effects of the e sigents a number of interesting an lim portant article have appeared recently \ \text{hard} \text{ hard set under of cancer grafts in an \ \ \ \text{ raved area (p \ 102) brings out a definite in regative fact with reference to the action of

roentgen rays. The ext tence of a stimulating effect of the \ rav-an assumption upon which a great deal of \ ray treatment has been given in recent verrs-was denied by both Holzknecht (p 161) and I ordes (p 161) in di cu sions at the recent international congre s of roent enologists and radiologists in London The results of roent gen treatment of a number of surpical condition of erred at the Tuebingen Clinic by Juenalin (p 167) and new method in the treatment of malignancy including the use of thorium \ in absorbable containers described by Kupferberg (p. 166) are of particular interest to workers in the field. The results obtained by Severlein and Hoelzel in the treatment of sarcoma at the Wuerz burg Clinic (p. 168) hould bring a ray of encour agement to the surgion confronted with similar conditions

A sympo sum on 1 jurperal infection (p. 133) by variou author reported from the Con res de Irô vrepueparale at Stra shur, a clear-cut pic ture of the syndrome of ectopic pregnant. by Polak (p. 130) the result of copolamine morphine suresthesia in the Ihrid thousand car set the Burnes Hoopital St. Louis reported by Schwarz and Krebs (p. 130) and the re ultostanted by saxral nerve block anasthesis in obtetties by Bonar and Weeker (p. 133) form an interesting and important group of reviews for

the obstetrical surreon
The result of arterial tran plant reported by
But (p. 134) and by klotz I ermar and Guthre
(p. 154) the use of dead serious grafts in covering,
raw perstoneal surfaces described by Mauclaire
(p. 163) the results of the u e of ether in the
perstoneal cavity of animal observed by Naujoks
(p. 103) and the re ults obstanced by Wilaino
in homogenou tran plantation of the kidney
(p. 136) indicate some of the interesting fines of
urgical re carch that are being leveloped both
in Europe and America

The entire ection on the surgery of the ga trointestinal tract and of the heer in this most in the traction of the heer in the most stimulating review. Glaucoma varix of the ocal cord gotter lymphorrhoxa followine bert amputation fractures of the external control laminotomy for the paraly; of Potes of cets are subjects that can be only mention of. Their interest is and single-garden of the most cau all reader.

INTERNATIONAL ABSTRACT OF SURGERY

FERRLARY 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Phillips W. C. The Diagnosis and Treatment of Septic S nus Thrombosis J. J. 1 q23

S pite ero ion of the inner table of the temporal bone occur most commonly in the tegmen or about the knee of the sigmoid sinus Septic thrombo i within the sinus 1 rare considing the frequent exposule to infection of the overlying dura

I highths and thromboss of the literal sinu or internal jugular vein miv result from (1) in anatomical boar opening in the part tal all (2) the lite I extension of a purulent bone le ion (3) modvement of the smaller vein of the disea of bone or (4) disease I the intermediate anastomotic ents in the thrombotic rica.

The diagnoss of spite c sinu thromboas is hard upon eat indection back are a epite temperature chill and n u ea. The timp rature curresumder to that or erspielas with diared surface manifestation. Faten is postoperation in orrespolations, eliabits of the sip begin mith a sudd in rise in the temicrature and a. Indiareg sin as us in otherment. The diagnoss of air pical circles equines exhaustive study by all k own method if general swith im so disputerment do not appertiese and ex in typical circles may recover without programment of the service of the control of the cont

data after mit to d personney ratter for se crial case after mit to d personney ratter for se crial to specific the sound of the bold when it is societied with nero of the bold will be a lateral smus bactersmic leucocyto's and a high polymorphos clear per entage and when there are no other complicit in scalls for exploration of the smus. The presence il necrotor or sloughing spots on the smus vall strong evidence of blood stream or the smus vall strong evidence of blood stream alarge clot smuspless of the same value of the strong and the smuspless of the same value of the strong and the same value of the same value o

n blod with train the sinus va considered thrombosed. If blood a aspirated it was cultused to determine which sils showed the highest bacterimia. Meet diagnosis the complete operation vas performed.

In the author's opinion treatment by respected blood tran is one from properly mitched donors is of very grat importance. Children may be given from 400 to 400 ccm and addits much furger quantiti. In it so or the da's the transfusion may be r pt tel. A number of undoubted ca es of interel sinus thromd loss occurring in bilateral mass is this have been r ported in a high reliance was placed on transfusion in pref tance to opera

The author lighte the jugular vein in its lovest portion rather than above the facial branch and prefers the to complete discertion because it is simple and quick and ju t as effect e. The vein boull be doubly lighted and divided. The high time wound heals promptly and with less defining the attention at resection youn.

A postsperate c lat ral sinus complication is the ac unulation of pus in the jugular bulb. If necessity the bulb egion may be opened freely from the mastord wound. The sinu is incised and packed after the clot h is been removed.

Bal an L and Cha py de cribe the anastomotic hannels for venou eturn from the cranium as follo s

1 The foramen magnum plexus (the uppermost spinal plexus) anastomoses with the transverse of cipital sinus in front and alth the observer of cipital sinus should be foramen magnum or their of their flext in fruinks the vertebral and alterior or their flext in fruinks the vertebral and alterior of their flext in fruinks the vertebral and alterior dyloid emi sary vein and the mission demissary vein flex ommunication here is so extensive that it will carry the blood of the entire skull after ligation of both jugglar veins. In the fetus and the new born infa t the cranial surface of the lower half of the occ pital tone: covered with a network of

large veins which carry the blood from the torcular herophili to the jugular. With development these veins become o cipital sinuses.

2 By the ophthalmic vein and its branches the blood may enter the facial and temporal ve ns 3 The middle meningeal veins c mmu cate vith the super or long tud nal s n s and the pterygoid

ple us

4 Innumerable access ory connections are formed
between the origin of the external jugular the
facial portion of the internal jugular and the origin
of intracranial veins everywhere over the vault and
the base of the skull WATTER C BENEFE M.D.

Bonnet and Michon Epithelioma of the Cheek Treated with Radium Needles (L; tl th m d l j u t tép l d m pu ctu) L n h 1943 xx 339

In the case reported a large ulcerating tumor de veloped on the mucous membran surf ceof the cheek and during the cou-seof a year erod dats ay through the cheek - Several hamour hage's occurred from in volvement of the facial artery

Eight needles eich containing a mgm of radium were inserted into the gro vih and alloy ed to remain in place for seven day. Fifteen days later the mu cous meml r ne ulcerat on h d regressed greatly and only a smill scar us a rible eten !!! Viere copic sections proved the diagno s of epithel oma

It is pointed out that if the lymphatics a e n v lved v hich was not true in this case metastases in th se structur s are very much more re i tant to rad um than the primary lesion

LOAL I DAS MD

EYE

MognJA Ocular Disease from Nasal Acces sory Sinu In olvement 4 J Oplith 9 3 3

Morgan reports four use v h ch he summarizes as

follo s

CASE I Retrobulbar optic neuritis with central
scotoma and m rked deter or tion of vi ion due t
ethmoid dise s and ch on c tonsiliti.

ground chinges

CASE 2 A retrobulbar on e due tida se of th

maxillary inus

Case 3 Extrabult at muscle in ly m nt due to
dise se of the maxillary u N apparent invol e

ment of the optic nerv

CASE 4 A retr bulb r case with hyalit de to extensive si us de tensive si us de tens

Doyne P G Tourn ys React on B t J Ophih

Downe exam ed forty s of gene all praiss in the ins n to d termine the presence of Tournay's reaction (1 ocorna borng the rule n interior fixt n amsocorna become the rul in lateral fixth n). The rection as present in hiteen absent in eight een doubtful in fou and unitateral in the

T enty of the subjects had Argyll Robertson pupils In fourteen of the latter Tournay's reaction was absent in four it vas present and in one it was doubt ful Argent Wiscort MD

Holth S and Berner O Congenital Mio is r Pinhole Pupil Owing to Devel prmental Faults of the D! tator Muscle B 1 J Ophik 19 3 v

Holth and Berner report the ccurrence of cong mital muo is in to so lets and a brother The parents were cous as. The father also had small pup Is but requised examination Follou ing the in still tion of atropine the pupils dilated poorf Irer. vas no history of squart. The must balance for far and near vas good. The youn est subject suffered with sprism of accomed tion and head ache these were returned by mydratt so. The gis leave my open and the boy was enimetrope. In a 'n light vi on vas very poor. The pupils did not react to glob or convergence. There was no pupiliary to the convergence there was no pupiliary in the dilate pupiliar and the inner limit is membrane were found defection.

The treatment f such cases consi ts in th u e of

VIRGIL WESCOTT M D

Snyd W H Th Eti logy and D gnosis f
Ct ucom Oh St i M J 93 x 64
Vail D T C n rning the Surgical Treatment f

Glaucoma With Sp clai R ference to a Modi fied Elli t LaCra g Techniqu Of St t M J

03 x 645

Swyder stites th t all case f gl ucoma have the same etiology. The condition is a dystrophy of the eye characterized anatomically by vascular and nervous degenerations and clinically by a hyper se retion following hyp excretion. Too much importance has been ascribed to age arteriosclerosis the size of the lens and sex as et objectal fetors in a many a sand young adults than its generally be feed. Cyclitia so an et olog factor should be year more attention.

In uspacious cas s gl co 1 shoull be as unued until it is elim 1 tel b it et 1. The di gnossi ill be confii m i by a po itiv history uni ani re fracti n test nor ed tension and changes in the bil d spot or central scotomata. The s gnis u ully considere i pathogn m n c of gla coma c cur late in the disea e

VAIL discusses the su g cal treatme t of glaucoms unde fou had

r leute nflamm tory glauc m ch racteri ed by the sudden onset of great par ma ked exdema chemos s edness an I rap d loss of visi n This ist t d by a vo C ff r deet my and the cure usually perm e t

2 Subscute inflammators glucom chracter ized by e c bations of hype tension with intervals of app rently no 1 lv o and slight or no ophthal

Although eserine will abort moscopic evidences each attack operation should be performed before great damage is done The Smith stidectomy is the author's choice of operation as it usually es

table hes normal ten ion 3 Secondary glaucoma This may or may not require surgical interference depending on its cause In some cases of cycliti paracentesis of the cornea may be necessary After a needling or a traumat ic cataract corneal section with vashing out of

lens material may be indicated

4 Simple glaucoma characterized etio ogi ally according to Fischer and Lane by arteriosclerosis of the nutrient ves els supplying the globe of the eye and clinically by a gradual decrease in vision and fields without a correspon ling increa e in tension This should be operated upon before it is too far advanced The author gives the following rule drop eserine solution into the eye suffici ntly often to prevent hypertension so lon as there is no further loss in visual acuity or in the field of vi ion but operate when esemme drops fail to control the tension and maintain the acusty and field of vision ta statu que In the author's cases a modified Flhot La Grange of eration has given the best results The corneo sel ral junction is trephined and the indectomy done through this opening. The opening is then enlarged by means of a 3 mm sci sors cut from each a de parallel with the periphery of the cornea MANFORD R WALTZ M D

Mann I C Some Sugge tions on the Embryology of Congenital Crescents B 1 J Ophth 19 3

The cases considered are the crescents that are congenital stationary unaccompanied by degenera tive changes not nece saily associated with any one error of refraction and most frequently situated be

low the d sk In the formation of a rescent it i essential that the nigmented outer layer of the optic cup should not gu te reach up to the insertion of the optic stalk as shown by ophthalm scopic and microscopic study The preponderance of inferior crescent is explained ty the normal d elopm at of the d k with the choroidal fissure as the d termining factor. There is a true nomaly of development of the edge of the di k not merely a obliqui insertion of the nerve or atrophy of any of the l yers. This an maly occurs

in the closur of the cho oidal fi ure there being an e sion of the unp gmented inner layers of the opticup along the edges of the cleft in the upper p tt It m y be looked upon as development lly homolog us with the caudi of bird and other an mals in the normal human embry o the architectural ba is of the

cauda i present though small

All congenital crescents ha e in common the fail ure of the pigment to reach the edge of the nerve and the fa lure of the choroid ju t beyond the ed e of the pigment There is a definite relationsh p between the development of the choroid and p gment Mesoderm develops into choroid when in contact with

nigment epithelium but not when in contact with the inner layer When a localized failure of epithe hum occurs in an area associated with an insertion of the optic stalk one type of congenital crescent may be supposed to develop This explains those con genital crescents not related to the choroidal fissure The occa ional atrophy of the sclerotic seen in crescents a explained by a relationship of the sclerotic condensation to the presence of choroid here the choroid is absent the sclera is inhibited MANTONN R WALTZ M D

Gifford S R and Cassidy W R Some Uses of the Slit Lamp A J Oblith 1024 3 5 VI 730

In a case reported by the author a tentative diag nosis of retiniti pigmento a v as made but as there as a history of specific infection and the Wasser mann reaction was positive the slit lamp finding of a very thin po terior synechia led to the conclusion that the retinal picture vas that of a disseminated choroiditi due to syphilis

Folds in the lens capsule following injury den dritic ulcer of the corner inter titial keratitis in its early stages and cataract are di cussed. The authors believe that in cases of cataract the slit lamp may give information of considerable value in THOMAS D AGLEN M D the pro nosis

EAR

Goldstein M A The Cla sification of Deafne's from the Standpoint of its Pathology Func tional T sts and Pedagogy L 3 g c p 1923

Deafnes may be chinically divided into seven types namely the lymphatic exanthematous cen tral otosclerotic congenital hereditary and me chanical

The lymphatic type is characterize l by a blocking in the tubo tympanic tract a change I tissue metab oli m and an uni airment in the con jucting appara Prompt intervention directed toward Wal dever a lymphatic ring vill relieve the obstruction and prevent complications

The exanthematous type is characterized etiolog ically by its onset during the local invasion of one of the exanthemata patholo scally by more or less destruction in the ear and functionally by impair ment of both end of the cochlear scale and fre quently an intermittent and irregular attack on the rest of the cochlear cell with the formation of tone

The central type 1 characterized by its total and sudden development during an attack of meningitis poliomyeliti or exanthema with intense febrile reaction in which the nerve trunks have been tox scally in aded and destroyed

The otosclerotic type i characterized by its pro gressive development usu lly in adult life a spongi fying or sclerotic change in the laby rinthine capsule little or no change in the membrans tympani diminished perception of low and high tones pro longation of bone conduction beyond the normal and in incip ent cases paracusis

In the congenital type there is a bological ab nee of tissue rather than a pathologic destruction or degeneration

In the hereditary type there s hereditary t ans mission of a degenerative element as in rickets an l

syphilis v hich may respond to specific t eatment. The mechanical type includes all those conditions in which the mechanic l influences of ob tru tion have not d veloped permanent second ry patholo y.

and in which appropriate treatment will greatly im prove the hearing

Another classification to which attention is

Another classification to which attention is t ected is that of nerve deafness in which feetypes redistinguithed

Deafne's due to pathologic changes in the

end organs or the acoustic labyrinth (labyrinthine type)

Deafness due to pythologic changes in the

ramus cochlean and the di tributio s to the cortical centers (centr 1 type)
3 Dealness due to congenital absence or are st

in development of a part or all of the filaments or branches of the auditory nerve in the acounter labying the grant of the property of the control of the c

4 Deafnes due to congen tal absence or arrest of de elop ient of the r mus cochlearis or its dis tribution to the cortical hearing center (entral type)

5 Deafness lue t a combination of the four group mentioned (lab) unthine and central type). In the different tion of deafness a functional test is ab olutely essential. This must nebude t least the use of four forks C5 C4 base C and center C or their equivalent in other appart tus Mark for R WLIZ M D.

Jenkins G J O t itis Deforman and Oto cle

The patholog cal change in ostetiis deformans and ot cleer sis are deex lobed. The important point of similarity in the microscopic appea ance of the temporal bone in these die erse is oxteoporoses. In otsocleros the Rinne test is of inst importance. A negati e Rinnet I loss ton s (below 200) is one of the art at definite signs. This is the cae all oin middle ear desfines but in 100 clero is the R nine test becomes negative with a much sightle degr of deafness that in any for mol of birtuction deaf exists.

Bone conduction is usually d min hed n oto clero. The low tone i mit s al avs at d and the h gh tone l mit only ry lightly affected

In ofoscle o is the list no between the point at which the patient hear the voce and that at which he can distinguish the ords spoken is mu higreat than in middle or nier all a dafnes fersons with typ al toscl ross her b tree with

el ctrical aid

The author belie es th t th ymptoms ind g
of typical otosclosi are due to this ite of act ity
of a disease y hich can poduce other forms if deaf

ness if t occurs in oth r parts of the labvinth therefore he includes these variou types of deaf ness in his otosclerosis or up

The cases of otosclero i stuled from the onset of the di ease began as cas s of pure internal car deafness

In ostettis deformans in which the skull bones are affected to any markel degree deafness is present. In the cases study d there was no h story of family deafnes. In its early stages the di ease probably involves the 1 by rinth at some di tance from the foramen ovale.

The deriness found in all cases of o te tis de formans affecting the head in a marked degree has some of the characte istics of typical otosclerotic

derines
Against the possibility that the two conditions
might be identical is the absence of a hered tary
tenden y in o tertis deformans. Oto clerosi usual
js begins in early life ostetti deformans in late
life No firm ly history of otosclerosis i found i
oste its deformans. W B STRES MD

Hemp t ad B E Ma to ditis W thout In ol e ment of the M ddle Ea J 1 M 4 1923 lvx 266

Three cas s of definite mastoid its without pparent involvement of the middle er and dung the same period 500 cases of involvement of the middle ear wire observed. The term primary mastoiditis is mi leading, because it exclude the po-thilty of extension from a middle ear proces

that has cleared up In cases of mastoniut the infection generally comes from the nospharent by we of the easts changing them dide are not head to adaptive If the additus ad antrum; and If it is so no scaled off no drawage being left. The middle can alwolve ment may be so slight the tit does not come in decomplete fullness to make or more than the decomplete fullness to make or more than the decomplete fullness to make or ment of heat.

Mastoudit's without appa ent invol cme! I the middle ear must not be confu d' with lat it's purative offit in d' awh ch as o lated with d'afferses and at times ith pain but in a chi there is no spontaneous di charge of pu The drum is lusterless full and sometimes bulg ng ind pus pipears on inci on

Three ases are reported. The first was precedel by a furu vicious. The ource of infect on may have been the fu unc losts or an otitis media. In the sound not het seek the was a history, Ip nin the ri which di appeared with ut it aim time. As we have the work of the man with a single of the mastical was the out to dring finding. In all of the cases the middle are truct reen at the 1 um as well as the middle are truct reen at the 1 um as well as the middle of the middle of the seek of the seek of the middle of the seek of the seek

MILL H J G SENTIELD M D

NOSE

Frank 1 Recent Nasal Fractures Ot I Rh 1 c / 1 1 2 / 1023 X

Of the many appliances u ed in the tast in the treatment of the fractured no e few are employed to lay chiefly because most of them were built to meet the requirements of individual or hypothetical ca es or for application to artificial lesions pro lucid

on the cidaver

Input s of the no c are divided into t o primary cl s es injuries without loss of tis ue and injuries with I struction of bone cartilage an I soft part The supporting structures of the no e are subject to it locations and incomplete or complete fractur I ractically all fractures of the nose are compound Stati ties on fracture from I propean medical

centers show nasal frectures to have a frequency of from 1 to 1 6 per cent

It is generally conceded that in the nos structures firm union does not take place until late in the econ I week or even the thir I week. In the ruth r opi on the sheet copper splint is the best retention any ratus. This is u plied after reduction of the

fracture with the Carter Adams forcers In conclu 1 n Frank emphasizes the importance (a) the suture of lacerated skin to minimize scar

I rmation and (a) the use of tetanus antit vin hen in 1 ate 11's the nature of the injury

MILIAM B STAR MD

Blaine 1 S Ti e Routine \ Ray Fxamination of the Na al Sinu s by Fo r Projections J 1111011 13

In \ ray studes of the sinuses for hagnostic jur poses it is a 1 all to m ke exposures at four hill r ent angles 1) t 23 d gree to tero-anterior Disition the straight I teral or 1 ct n the ma illary projetion po te a terior and the pheno d supero

III CTIOT

The frequently us lim thost of making only on or perh by t o xposures (the po tero anter or and the lateral) is ina ! juste for a careful stuly of the four sum es

I tigle posure ! the nas. I sinu es is me ere enince on hich to las nominin presence rat one i nu li a ean llavors rror in interpret tion

The t > xpc ur techn que con ; ting of a frontal and I terril projection gives to factors evil nce a t ti fr nt l n i thmorismu loe n t o well ev t the c n bition of the maxillary and the oil Il althered ex air omple xamir tio WHEN M R ST BE M D.

Unger M Studies in the Use of Suction in Dise e of the Accessory Na al Sinuse L 19 3

Studes were mil f the art tion in the at pre u e in th no luting ordin ex respir tion force I in pirati n and fo ce l'expiration and of th

influence of the c variation on the air pre sure in the accessory sinu es

It vas found that suction vas crated when the subject smilled strongly and that auto suction produce I by inhaling as strongly as po if le through the nostril with the mouth close I is an effective me in of applying uction to the sinuse

The suction nump should be fitte l with a vacuum gauge more on its othan the now well and with all pa s valve so that the vacuum can be regulated The vacuum nec art to draw pu from the sinus must be ascertained fir t by u ing a gaug with auto suction or the tump and the by pas valve then set for that values. The accum should be applied intermittent! at interval of a few seconds nationt should be taught to u.e. auto suction just a he i taught to u auto politzerization

WILLIAM R STARK M D

MOUTH

Dunet C. and Michon L. Ab ces of th Tongue (Í bèillngu) R dh xl ii 4)

of the tongue i the terminal stage of a I piparen hymit u gli itis. The rare occurrence of the cultine luc prhas to the almot ex clusis is mu ular tructure of the tongue. Males ire mr fr in ntly iff tel than femal's and alchent and lult grnthn hildren friu mati m burning 1 matiti general infection, and the vario hath fr d post to the confition Ih auer la ter linfe tun

The vir n l irn tru ture f the tongue the tre v of it mu lir fibr th small amount of come to mit to try try and the pre ence of fbo apon to get gl n the form a sumed ts th up; irst n Ih frm ! limited mas i lificilt to liff rate t frm a olid tumor Ih ur pur tion n v b m 1 that i on eith r id of the sentum ! t n th two geni glo us mu les fitral to en the hoof u an I gento

glo u mu l r stuat dat the la e The on t of the amptom is variable but is usually ac empana lity diphagra headache a r e in the tempe atur pain in the tongue ly ar three and g ral milite. The t noue lee mes rd matou n! nlarg d an i cemil te occlu ion of the past ruled mposible The floor 1th mouth and the hicks mi labe me r lematau The uthro tarea in tin lurated but ul maxillary alenopath a fequant It a matimes a re-diff ult t 1 11 wheth rore t thr is s ppuration ith a point I flu tust on. The uppurative prema be me stel ni rugtur or my be m at sorbe I with ut treatment

th tingu may be early confue! VI. with test in a lesions secondary suberculou niect ons nil ulwig argina The only curati e treatm at is in I ton and d singer

The autho all two case to sixteen reported in the literature Lorus I Dans MD

THROAT

Faunce (B: Varix of the Vocal Cord a Common ly Unr cognized Path logical Condition with a Hist logical Study in Sixteen Cases L racescop to 3

Of 1171 n gn cord tum rs rem > ed by operation exteen prived t be varices. The pr perstine histories in thee ca. 4 were indefinite an I offered no practical a si tare in the lagnon's In the cases in hich a Wasermann t twas mad it was n gatine The voungest pitiert wa 16 and the oldest 47 years of age The rest w to beth n 22 and 44 years I urte n yere men and two were w men There had been no endence of a retrain or loss of

H to I The f tmatt n of hyal n f bring a most character istic feature of any Th author ha I m natrated the positility of a la ge in ch r ter of the varis

to that of a true f b om?

The rt cle includes in thotographs of set a hoving the most typ al of the vari u tags

the ugh which a orlivar t prases

The etiol gy of v my of the cortisots re but it th u ht that infects n and ese stra n are factors. The 1 The lap ture may or may of be typic lar uggesture. The caphtion is not una man a lut oft n is unrecognized 5m ll v r es may become c mil tely ab arbed. I rg ones may rganiz la ing a no lulur t In some ases vari may change into a fibran o cap lloma Accurren e after exci un 1 r r WHITIN B ST BE M D

NECK

Lucelin A Venot A and Bonnin H Lat ral Aberrant Thyr ids and Th ir Tum ra (Les be ant I ter les t 1 rs t m thy or 1 Red & lat 10 3 1 303

The authors r new tw nts five cases of I teral aberrant there i alar I coll et d from th I ter ture an I r port one ca e of th ir o n They I fin a lateral aberrant ther all as a ma s of t sue with the tructure of the norm 1 or pathologic there deland s hich s itu t i ithin an area bound d t the melian in the m t d pricess a line tangential

to the aurtic r h 1 the cl 1 le Such aberrant gro th r four times more com mon in females than in mal s. They are u ually single but n tinf ou ntly are multiple. In a ze they v ry from that of a hazel nut to th t f the fetal head. They are mmonly ituated just posterior to the stern of all master i muscle I eneath the max lix or clavicle. While they a c scul r they ar u ually not adher at to the urro a ! ag structur s Ia som cases the histologi picture may b that of a tran ition i ma benign to a m I gn at thy rold

therr nt gr th m) dev I p from a sm II p ce of thyr id ti sue wli h bec mes I locat d from its normal ox it at the t m of fl aton of the neck or may ari e from the thi d b neh 1 arch which normally gives e to the parathyroid and thymus

glan is The treatment of ould be any al remove ts a rule the is not h cuit

I MILE D VIS MID Czermak H: A Clinical Study of C it r (Z

ki kdes kroj!) ! kf li Ch This is a report of the results in a subcases of be

high g iter went three greent of the s lects wer females.

The incidence of eviter is er atest in the second deca! of I fe but in almost half the cases the eo d tion begins in the first decade. The right half of the thyr I gland is more frequentl aff cted th n the I it the left lobe more frequently enlarges t to the th rax Diffculty in swallowing is common dis turl ances in the cervical sympath to are don't s much to the size as to the firmness and stat n ! th g ster On careful exam nation Horners si drome is frequently I scernille b t m be we k The d turbances in the s my athetic very rarely re-

tr gress after operation. The recurrent terve t it n mjur 1 by the pres. te of the g ter

Most important i the relation of the gott r to th tr ch a. In 6 per cent of the ca es re sewed there were attacks of suffec t on which ends gered life B f re operation it is e trem ly important to ! ter mine the posti not the tra head desophigus by mean f the \ray Direct tracheose p I to be avo ded as the int tion it to up min ! dliter to infl mmat noith lungs Ore of the most di gree able complicate as I soften ag of the tricher In two cas stracheotom was n ces ary after the opera tion In the others fr t noith traches by s tur ig the top resects a turner to the inner surf ce of th sternocl id masto I muscl as ufi tient The author opposes all m thods les gred t support the trachea during the operation a lither u e the surgeon loses the opportunits to I de of the ela ticity of the tube Immedate tr cheotomy a defi nit is indicated after strumectoms i hen in pite of figation of the trich a respiration is obstructed Diff cults in breathing was present in 80 per cent of the c ses resi wed. In 8 per cent the trachea as sumed the shape of a sabr hath In 14 per c nt the gotter had cau ed a d tract pulmonary emph

Srma. When the heart is aff cted the exact r ponsiblity of toxic and mechani al nituence is difficult t determine Sec ndary che ges in the heart may der lon al a in cases of truch al sten is not due to

goiter In the treatment of gotter surg ry h lds first place To date there is n kno n ffects con erva tive treatment for the c nm n nodular c ll id According t Bre tner all ge ts o far te ted break down the funct; ming ports n of the the road eland but r with ut i fl ce on the de generated nodul I have med cata a is to be re commend d only in cases of simpl h perpla a There is a great differ c between t eatme twith iodine in which con der ble quantities are en

ployed and todine prophylaxis as at present practised Czermak warns against roentgen treatment as it is followed by adhesions which render operation difficult later on

Patients with congestive and vascular goiters should be kept in bed for a long period before opera tion Affected hearts should be prepared by digitals In the author's cases the operation is performed under local anæsthesia. In exophthalmic goiter the skin is not disinfected with jodine Anæsthesia 1

induced by infiltration of the skin

In the operation the goiter is expo ed in the usual manner by a collar incision through the skin and the vided on the side most involved or on both sides As a rule detachment and resection of the isthmus are not done The portions of the gland to be resected are stitched around with catgut mattress sutures Great care is taken not to touch the recurrent nerve glass drain is inserted and removed at the end of twenty four hours. The hyord muscle is spared in only I ght cases

As a rule the operation is bilateral Hemistrumec tomy is not considered a good operation. Query ain s. method of ligating the arteries is not employed as it is inconvenient. Operative widening of the entrance to the thorax has never been found necessary even

in cases of larg intrathoracic nodules

The most important operative complication is air Re tlessness favors this complication As a preventive measure the author recommend placing the pate at in the recumbent position during the operation If air embolism occurs immediate compression and copiou arrigation of the field of operation with salt solution should be carried out the pelvis elevated and oxygen a launistered under pressure

another complication of operation is harmorrhage In six of the author's cases the bigature on a large artery became loosen d during the operation and in o 11 per cent a late hamorrhage occurred. One pa tient de l'Irom late hamorrhage. In most cases the cause of death is pressure of the hamatoma upon the trachea. For this r s nd ain ger of great im

tx rtan e

Damage to the recurrent nerve is generally as cribe I to an error in techn que but up to the p es ent time no reli bl m thod f as uring the safets f the n rve has been d vise! Postoper tive ho rse nes sas reported by abo taper e ni of the author's patients but su h I serv tion are of n salue un less careful nd repe ted larungeal ex minations are n i le both before n l'after operation

Tetany in lope i in el ven uses lo 7 per cent) ers in tan e tho oper tion had been technically difficult. In none i these ca es w re all f ur arters a lig ted t walls the symptoms appear in the first twents four h urs. In the treatm at in adlition to the dmin str tion of there din and p rathyroidin tablets and calcium la ticum the parenteral feeling of accessors theroid glan i is to be considered

Coster fever belongs to the most common post operative phenomena. It is attributed to absorption from the complicated wound and an infection which is scarcely discernible clinically. Drainage is there fore established as a routine measure primary clo sure of the wound being done only in exceptional cases Partial drainage 1 better than none As a rule the drain should remain in place only twenty four hours

In 03 per cent of the cases reviewed healing was uncomplicated The most frequent complication was fistula formation. In two cases general sensis

developed

The total number of death in the 1 473 cases was Three patients died of carcinoma of the lary ny carcinoma of the esophagus and ancuri m of the aorta respectively. These cases show that opera-tion should be preceded by a thorough lary ngological examination

Influenza is a serious complication. Accord. ing to von Haberer operation should not be per formed within four months after recovery from

The permanency of the results of operation de pends very largely on the surgical procedure Eachty three p r cent of the nationts who were subsequently examined or questioned were sati fied with the results. Much may be expected from to line t tot hylaxis

According to Hell ig and klose the cases re viewed may be divided into two main groups from a pathologico anatomical viewpoint diffuse colloid goster 20 per cent and adenomatous colloid goster 80 per cent As in other pronouncedly goitrous localities exophthalmic goiter was relatively rare (26 per cent of the cases) Lon Haberer takes the stand that in exophthalmic goiter the thymus also is invol ed an i must therefore be included in the opera tion

Thirty four of the patients whose cases are re ne ed were afflicted with strumitis. In thirty it progressed to the point of suppurati e breaking down The mortality was 8 8 per cent Struma ma ligna was diagnosed in thirty three cases and only eight wer operable The life of one patient was prolonged e en years by morcellation of a nodule pressing upon the traches and subsequent roentgen

In conclusion Czermak states that the Enderlen Hotz radical operation cannot be set up as the typical op ration as it has not met expectations. It does not always prevent a r lapse and is associated with greater danger of post perative tetany than other procedures SCHUBFRT (7)

Adams E W and Cros lev H > A Limited Out break of Acute Golter in a Children's Home La 1 93 cc 51

The author reports the outbreak of acute goster in eight boys between the ages of 3 and 15 years who were living in one cottage. Two adults bying with these boys showed no the road swelling

In $z \mid$ adno t erle itt cularg self n! r teanit! r re all lth thu

thir 1 pt 1 11 dratig tr max mum il, " 1 fe 1 rf ft win to be an i an air ai T th wie th 1 , th nt of three m il n mal The auth | Let 1 din as to the time ti n may hall enaf i

hilm 1 af w ki mi k Ir in the title t 1 711 Br m 1 Ti e Quinin Test in II) perti Second Report | Fort If J 11

elu a Idjen ling buj net vjen the term that the true test at t entimeth first from the test me lareth let h lilit bi lmill ni i the cent is the first first of the cent is the first f 1110 1373 I nal th milia mility i · willi The state of the s in 1 funl 1

the I must the also ne White goal smit fielt test in nent theth

Pilitt 1 in the test of the control of the light at the month of the light at the l for in faith nant | pether! fining of the first from the nighten me district to the intermediate of force or carfit of the sound of an extreme to the free of the sound of the so

ish littly high trially it is for homes The quant tista lipen the except al deran t I pers us the lyl rethyr I sm to th rest | g | flect | quinin The tole n nounts almost to immunity and is n ted n t only

th cancell irr in ding years

~ # 1F 41 200 F 1-4 tid rate man f #1 7 #2 ام الأف Mirek zi me sy mm f 1 1 18

la li ja ret lime 41 7 1/15 40 at the fit f t ٠, 1× 1 4 2 7 1 3 the page that tritim and rethre A Intheire alban 1 m ; i turi ien if th ~ 1 Att o me the 111 -N tis

11 2 11 7 117 31 24 10 Hagt f ammirrentill : The uthe listh per met tert l l thin term P* a inth a lat Onthis it ballet a s tur or anti-axis I f nit to fe lo lut wit iff en gie b ret 1 (1 71 I m "Il R ter th "that hart m her I Rit 'F i'm we i gre ura th It's all beig Feter

het I to Li al Hi carvi

norms a ressert sine to interpole the entral > 1 The time of the entral > 1 the time of the entral results of the entral results of the entral results of the entral tentral results of the entral res y nty fy e ghts for and t nien i sele

I rott that Ith schild the I for the first ath will clike a notice and an interest and the first and affect far and in the first and the firs mpe Itil int a per ph rel ron with a next of mpe fine int a per purition min a met of see for it re inbling that fan early inner if see fif it reals for a fat much i fepithat cell s often n tet n dat i mil gen it t m cen s onen n te i n u at i min gn at t namely u l zati n and pparent di pping

of the nuclear material were not observed and there was no constant change in the blood vessels About the third week organization and healing began by proliferation of the f broblasts at the periphers The parathyroid did not show any change Boiling water had produced no microscopic lesion at the end of one month. When quinine and urea hydrochloride were employed the changes were only micro

Glands treated with radium were in all in tances

free from adhesions The strength of the radium applicator, the dura tion of the exposure the distance between the radium and the tissue the type of tissue cell treated the structure of the tis ue and the I hysiological char acteri tics must be con idered. The striking feature was the apparently very marked rest tance of normal thyroid tissue to radiation. The transition from necrotic to undamaged tissue was very sharp

The points brought out in the article are summa

sized as follows r Primary changes induced by radium in the

thy roid are hæmorrhage and necrosis Repair is com plete in ti else i cels 2 Normal thyroid is distinctly re istant to radi

3 No toxic symptoms of any sort were seen

4 No demonstrable changes were seen in the

parathyroid 5 Implantation seems superior to surface ap plication

6 Relatively large doses are required to obtain an extensive effect on the gland

A JAMES LARKIN M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Wile sky A O Ti eValue of Cranial Decompres

| Operations | 4m J Jl | 5 | 9 | 1 | 2 | 3 | 5

I operate its 4m J M > 9 3 1 + 3 5

I infinis at imporary de ompress effect may
be be uned by a privating the ventricle freethy
through the pen fintanelle or by junturing the

pu allosum Openings in the fronto-parietosciptial regions are or un lesistatle as the expose the train tundue traums. In 20 per cent of cases of infiltrating turn or pun ture of the brain i foll well d ath from hamournag into the turn of thin no tweek.

S bocc jital operation are 1 ne f r explication but er a d mpres in In som cases thy refill welly rightly 6 the nock f r fr m twents f ur t fourts eight have becau of operative traum to the neck mu les a slight inflummators resistion or extress satel Hoo!

Subtemps al operati in a re a sociate I with leshock it in suboccip tal peration. Both type of intervention may cause in increase in the intracra in I pressure and or lema for the first twenty four to for the eight hours.

Like Cu hing in Leas, the author his seen no lecompression for thron lumbar puncture in cases of vereintract nual pressure after evaniocerely alliques. Neith this bein ted such in effect from the use of a neither ted solution of hind solutions.

Chi lien an ly ung persons stand lecempresi ne operations better than older persons. Decomy res volgenerally has little effect on tupor or frows new to the a last feet of the person of the person lies and the little state of t

Case of cr. necercit all injury include a large group in a hish spantaneous recovery occurs a small group in which death results whatever is alone and a even small grup in which the utr. me is doubtful. Operation is indicated in ev. ry case showing the sign of increasing intracranial pressure. When localization is impossible a right subtemporal decompression is advisable.

The mortal ty from decompt sion operations is dependent entirely upon the gravity of their deation the length of time the neopla tied each has been present and the patients general condition. In 57 per cent of the crises renewed by the author the operation gave more or less relief.

The bereficial effect of decompres, on upon the simplement of the factor of the present into the transport to the degree of the presenting factoria in the interacting factoria in the interacting factoria when of the react of from tumor received by the author were fixture in the 1 stages and show did offering reneral and fixed sample a bad reached as having one conditions their allowance for the fixed sample as the fixed of the factorial sample as the fixed of the fixed sample and the fixed sample and the fixed sample and the fixed sample for the fix

(3 at lin and de Martel Cerebral Tumors Sudden Ones of Sympt in Following Limbar Fu c ture Relief (4) en by Trend lenburg Ioutin a Cur Obtained b Deep Nay Therapy (7u ru littra) c ! ti bru q e ki laut due p tin 1a laut littra cur on p me en position de turn rue a cur on de trende dus la turn rue a cur of the product of the cur o

The auth rx r port a c e of c rebt l tumor in which a simple decompres in was perforced after con level to the local congitive at long to the same that consider the same due to hermat in of the cer hell in to the or mean mum These sul ded when the patient was placed in the Trend lending post in Subsequent the local in a fit thumor was determined by man of the Vara half the symptoms were contracted to the constant of the time the cell to display it returned.

LOYAL F DAVIS MD

Aper J B Puncture of the Citema M gna J Sm M A 19 3 1 x 2, 355 Aper speaks of the potential danger of cistema

mygna puncture and r vews the lita which he accumulated in the pat three vears since he fart alvocated the procedur. In this review a number of physicians in differ at cities, have co-operated of physicians in differ at cities, have co-operated earlier of the positive of the positive and it is not processed to the proces

Repeated punctures may be made safely. The greatest number on any on patient was twenty six Many patient it re-enced more than ten punctures for serum tre-tment.

The original technique has proved attisfactory except for children. Increased intracranial pressure

with obliteration or displacement of the cistern is a

The puccess a indicated for the treatment of menings one meningtic block the security menings of the compension of the spinal cord to obtain creebro spinal fluid for examination when it is impossible or individual to obtain teleswhere an 10 secure a point of entrance to the subaractimoid space for intention. William E Struktimor VI D

Wertheimer P A Review of the Present Treat ment of Trigeminal Neuralgia (Lo entat a actuelle du trait ment di la nevralge fac le) Ly n ch 1923 xx 463

It is very important to prove the presence of a major neuralgan before proceeding with treatment it is not always east to eliminate the pseudo neural gias. The possibility of vascular and vasomotor symptoms associated with neuralgic pain should be borne in mind. In every case a complete neurological and physical examination should be made to deter more the eurological

Alcohol injections are of value in the early stages of the malady not only as a temporary therapeutic measure but also to verify the essential idiopathic character of the neuralma and to furnish an accurate indication of the relief to be obtained by surgical methods

The operative treatment of choice is trigeminal neurectomy with preservation of the motor root Postoperative complications include facial paralysis. This complication is believed to be due to traction exerted upon the great superficial petrosal ner engagement of the preserved and the preserved in the preserved

PERIPHERAL NERVES

Bérard The End Result of Suture of the Ulnar herne (Résultat élog é d utu du ul t l) Ly chr 923 x 5 0

The author reports the find ngs in a case f rad al nerve suture and a case of ulnar nerve suture sev n and eight years respectively after the operation

and almost nine years in each case after the o cur rence of the or ginal lesion

In the case of the radiu nerv less on the familiar which was opposite the insertion of the Holai muscle the action of the suprantor longes we strong extension of the wrist vas feetble 1 to not and abduction of the thumb were possible but vetter soon of the fingers as simpossible. Hyperthese was soon of the fingers as simpossible. Hyperthese was the first the strong was the strong with the strong was strong to the strong was strong to the strong was strong with the strong was stro

In the case of the ulman resutted even month after the injury three was a part all so no of the median nerve. Upon eximination no atrophy of the thenar or hypothenar eminences and no sensory disturbances were found but there was limitation of flexion of the thumb and in the mo ement of the interostic muscles. LOAM F DAYS MD

Merard Late Surure of the Ulnar Nerve with Anastomosis of the Med an by Implantation in a Case of Section of the Ulnar and Median Nerves by a War Wound Restoration of Function in the Ulnar Nerve Alone (Suture anceane du cubital sace assistomose par implantation dia madiant of the Case of the Case of the Case du cubital sure de guerre restauration du cubital seul) Ly n clur 1031, 28 239

The patient had received a wound which completely se touch the ultra and median nerves and resulted in complete reaction of degeneration in all the muscles of the forearm and hand unnervated by these nerves. There was pronounced atrophy of these muscles "Anexthesia was complete the skin was day and scally and trophic ulcres were present. The ultra nerve was sutured and and all so that the theory of the was the state of the skin of the skin the state of the median were therefore implanted. The two ends of the median were therefore implanted into longitudinal pressions made in the ultra nerve.

Fight's ears later there was complete return or function in the muscles supplied by the ultrat never and reduction of the original area of anosthesia No return of function could be ascertained in the muscles supplied by the med an nerv.

LOYAL E DAVIS M D

SYMPATHETIC NERVES

S ifert F Sympathectomy (Zu F ag der Sympa th kt me) irch f klin Ch 922 cxx1 248

On the bast of his own experience the author con firms the usefulness of the Lench and Bruening hypothesis with regard to the occurrence of trophic ulcers after nere injuries especially since it is in harmony with recognized facts of anatomy and physiology. He regards to cases observed by him self as of particular interest since in a certain sense they represent rever all of these conditions. He doubts whether it is necessary to assume an irritation proceeding from a central neuroma.

Not all the questions concerning secondars and particularly primary trophic disturbances can as yet be answered. Little light has been thron non the possible influence of constitutional factors or tem porary predi position. The recommendation of a civil of pen atternal sympathectomy is justifiable in all caes of trophic disturbances following a nerve y jury. In tophoneuro es following primary nerve or vasomotor di eases on the other hand the prospect are very uncertain.

In future cases more attention should be paid to funct onal tests for it is a que tion whether sufficient on tests for it is a que tion whether sufficient information is obtained from oil-of mustard tests measurements of the blood pressure and hypersemia tests after I gation in the extremites. Microscopic examination of the capillaries will al.o be of value and a minal experiments appear to promise results.

In the h ation of injured large arteries of an extremity or of aneurisms of such arteries continuity resection of the vessel should be avoided if possible in a case treated by the author the fact was demon

strated that d vision of the sympathetic nerve may prepare the adventitua of the visi of for subsequent trophic disturbances. This danger would be in creased by limiting the circulation by ligation in spite of the formation of good collateral paths. In vive of this of the stratuses on the danger of gangene following ligation of the larger viterral trunks should be revised.

In conclusion the author states that the results of a circular suture of a vessel successful in itself may be impaired by the interrupt on of the symp thet c paths in the adventition of the vessel. The tone in the into blood vacular reg on mu t not be disturbed as this may lead to trophe d sturbances in the tissues such as occurred in a case reported.

HAFCKER (Z)

Santy Wound of the Atilla with Incomplet Section of the Brachial Pierus Amelication of Sensory and Circuit tory D stu bances in the Hand by Arterial Sympathect my (?) de la!! est mobble du pile child in the state of the student of the state of the stat

In the cas reported an injury 1 th avulls had incompletely sectioned the components of the brach all plesus and completely a ctt ned the a lilar, retry. At the time of the injury nothing mo eth in treatment of the harmo rhage and ishock vas poble Later the nerves were united. Sx months after this op rat on th. p time to complain and so that the second of the radial retry showed in pulsition. The wound was ther 1 c. p lord and the caincrid tissue about the interves was removed. As the ligated ends of the viewed educated. Almost immediate by thereafter the radial pulse return 1 the hind to the came red and arm and the p in a deen ry do came red and arm and the p. in a deen ry do.

turbances bec me le s marked

OF TOTA OF

Le I he Th End Result Three Years and Thee Month After a Perifemoral Sympathectomy for a Perforating Plantar Uner Following Section of the Sc atto Nerve (Ré lt t clorg é - jansetşm --du esymp thectom eperifem of pour m ux perf ants planta es aprè sect n du scat que) Lwe d! 0 10 13 272

In the case rep tred a gunshet wound in the posterior aspect of the thigh in h ch the scatte nerve was inju ed was followed by complete parely so of the leg with va mortor disturbances and caussigns in the foot. The scatter nerve as there expected in the plantar su face of the foot ind a femoral sympather comy was performed E ght lays lat r the ufect was completely healed. Three vears and the emonths after the sympathetomy the foot was warm of normal color and without any occleman or cyanious more considered for the properties of the control of the color was a completely healed. There was a completely healed the color was a completely healed the color was a completely healed.

kappis M Further Experiences w th Sympath c tomy in Cas of Delayed Cons lid tion Ulce s f the Leg Etc (W t Erf hrug mtd Symp th ktome b r g t k ld t Be k hw m) A U k ck g 3 441

LOYAL F D & S M D

According to the eperience of h. ppp peri art als mynathect mu occasionally improves the art all nutrition of the pripheral pot ion of the extremity. It was used by him in arterio clerotic gain rene t phiculice a simpl creat cital ulcer and delayed co solidation. In the map into of cas is the relist were surprise, Friedmith the vasoe structions which as prolated by the dominance of contraining in mixed structs in reduced by the variety of the period of the nature of the effect of the op atta h has not be nature of the effect of the op atta h has not be definitely determined. Riz ze (2)

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Leriche Lymphorrhoa Con ecutive to Clearing Out the Axilla in the Treatment of Cancer of the Breast (De La lymph ribe cut valled m t d l 1 elled no l tait mat l c d m)

Lyo ch: 193

In the rad cal operation for cancer of the bre is with the division of the pectoral minor mu cle in the dissection of the audiary cellular its ue the ariffers via its largely uncovered and all or part of the lymph chunch are interrupted. If the amputation wound its drained the lymph flow is more apt to be crisoled.

In thirty two cas in which the ruther loc! the vound vithout traininge there vere two vith an unusually abundant lymphorrhora The ti nts were about 60 year old I tumor of the outer half of the treat vas remo ed by II'd te i method with circ to obtain perfect hemostasi and with cloure of the skin without traction. The postoperativ course vas apyretic. On the eighth by when the stitch were removed a voluminous fluctuating coll tion a found di tendina the la r part of the yound and when the car a era at 1 with the to cup a flood of I mo col red slightly nink fluite cane! At first the fluit nece sitat 1 redres ing within six hours but it ir hulls hi min she I an I on the fifteenth day it had di in pear d Recently the author ha hala thirl milar (150

Because of the haracter of the flu 1 and it intermittent rivibine it hirge th abone for year and the occasio ally a social, I streen list tude the author consil is the on histon undoubted light a lichtage of lymph. In fax rold the is we the fact that the inscharge esse about the set teenth fly at which tume. If it is has been it then the fact that is a solution of the fact that the inscharge is sets about the set teenth fly at which tume. If it is has shown that the fact that is the inscharge in the fact that is the fact that the inscharge is come re-called the fact that the fact tha

Th' auth r tat that hind rifect in tudiciently emphrized in the ork on a near of the breat the hondroom a entail, being not be loof a large quantity of I might eith his ages with a daily nountain in make they went the author a lives waiting it if the n lay and then punturing the collect on outsile of the cetter.

W TER C BURKE MID

TRACHEA LUNGS AND PLEURA

Cras sen J The P seat Politin of the Surgical Treatment of hulmonary Tuberculo is B t

The author quotes 's gman s will known stat ties which show that when a complete collap e could

be obtained by art heal pneumothorax more than o per cent of the patients were able to go back to work and that in case with complete pneumo thorax but stense e localized adhesions the cor re ponling percentage was 3, while in circ so with incomplete pneumothorax and larger a thesions it was 11.

With regar I to the type of case in which pneumo thorax: in leasted (rivesen vittes. When a je of advine of tubercoloss loes, not show any impro ement or hope of lasting cure by ordinary standarium treatment. In when other special reme he are of tof the question or have been tried in van then only do we senture to con it evi bether.

case is ht fo collap treatment In cases without noteworthy adhesions and with out acti e disea e in the other lung compl te pneu mother x generally proves successful As a rule it a maintaine I for from three to five year. In cases with complete or almost complete pneumothorax but with extensive localize I adhesions the author resorts to the Tacobacus thorac scopy with Cauteriza tion The method is not applicable to all cales and requires are not to cauterize urface adhesions where lare blood visitly or lung affectives mucht be penc ! If hemorrhage occurs the blee line points m & b are for the intrath racie pr ssure in r a ! ly the injects n of salt solution. When artificial pneumoth rax 1 impo ible to any satisfactory I ree thoric plisty is indicated (ravesen u ually i flo s Sauerbruch's t chnique He alvi e sap pl menting to al angesthesis with other luring the m r hisboult parts of th operation. The two tage procedur 1 the afer method but in the cases i hort lein person the one stage method mas ometimes? use? RALPH B BETTHAN M D

Keller W. I Bronchial Fisture J 1 W (

Of the ty has a cof brone mpyema with bron had he tale \$4 per entirere due to intrapulmonary

uppursts n 2 per ent to external violence. Thirts se n p r ni ser uses of multipl fistulæ. In about a the distriction of the service of the s

about a th rd tulerculo is vas a factor
Clure effected in 16 p.r. cent by

Cl ure effected in 30 preent be sample modular ton and sterilization of the eventy in 50 precent by modular ton and sterilization on the eventy in 50 precent by the studies plus may be clearly the studies provided the studies of the feet and in 10 precent by modular to the feet and the studies of the feet and the studies to the feet of the

One of the two metho is going the best results con i ted in mob lization of the fistula closure by

a pursestring suture and re nforcement with a muscle graft. This was sitisfactory in cases in which the cavity had been successfully sternlized the grafts remained and were transformed into connecti e ti sue. In infected cavities the grafts were rapidly destroyed.

The other method which proved most successful consisted in the use of a pedianculated muscle flap covered with skin except at the size of its att ishmen over the cavity. This was anchored over the un sutured fistula by means of a few sliknoring sutures and left in place until it had become firmly attached. It was then cut off and me do to the ment fistula to be occluded. The wound was left of anyon. The contract of the contract of the substitute when Dakin as pollutions is not telerated.

Playfair k and Wakeley C. P. G. Pr mary Car cinoma of the I ung A. Di cussion of Its In cidence and D agno s. B. t. J. S. rg. 9 3 m

RAIDIE R BETTWEN M D.

The authors found four cases of primary car cinoma of the lung in 3 183 po timortem examinations (or per cent) I rom these four cases which they describe in detail and from those reported in the literature they draw the following conclusions

I I simary carcinoma of the lung is probably more

common than is generally belie ed

2 The fact that a chronic inflammatory affect in precedes the carcinoma suggests that such a condition may be a f ctor in the etology. Ch once bronchitis originating from the respiratory lesions of influenza may be one of the most important precur ors of pulmonary circinoma.

3 The pathology is still ob cure S me of the carcinomata are readily classified hist logically while others remain und in fied as to their origin.

The authors emphasize the importance of bearing in mind the possibility of a primar j pulmonary neoplasm in all cases p esenting ch one lung symptoms such as shortness of b eath cough hiemorities and thoracce pain

Roentgenography a useful adjunct at times often unreliable D generated carcinoma cells are

rarely found in the sputum

Surgery performed under intratracheal aniesthesia and possibly the simultaneous administration of Y ray treatment offer the only chance of eradicatin the disease Ratin B B Trial MD

Graham F A Pneum ctomy with the Cout ry

Chrome suppuration of the lung is one of the most difficult conduit no to treat. The lu g is apt to be honeycombed with small abece es some of which do not connect with the main drainage tract. The bronchi are thickened and dl ted and the r lumina in filled with ea ily blede ding granulation t is compress on of the lung by pneumothorax multiple mb resection or their methods it usually unsait s

factory Drainage is impossible and lobectomy is a most formidable operation with a very hish more tality

Graham describes an operation which be de ised. It has performed it in three cases with no mortality a d with a remarkable absence of reaction dumage or just after the operation. All three patients we greatly benefited. The operation is in reality a poer mectomy performed with the actual cautery. It is performed in several stages. Anaesthesia is required desired in the tax in a soon at being performed if desired in the tax in a soon at being performed in

At the first stage the field is exposed by tu ning up a flap of skin and muscle and removing several ribs The affected portion of the lung is then in vie covered by pl ura to which it is usually deniely ad herent The first stage may then be terminated if At a later stage no anaesthetic is re quired or if the patient is apprehensive a little nitrous oxide and oxygen may be given. With a large soldering iron heated to a red heat an exca a tion is then made in the lung tissue. If an old drain age track ext to it is well to begin the cauterization by plunging the hot from into the si us and to work out from that New abcesses are sometimes found this way lying close but not commun cat ng with the main drainage track. The one at on is not complete until all the diseased tissue h s been removed by the cautery but it may be performed in as many stag s as desired

The author checks up on the results with the Yary thus studyina, him elf if it all de cased lusp has been r moved. If belt ves that a bitteral supportation may be treated in a smalar manner. It might be supposed that the ewould be great changer from harmorisms when the eights a practice but in Grahams it her cases there was no hone sesting the patients of the patients of the patients of the patients of the steme blood press ur) a harmorrhage would be serve easily controlled by packing.

RALPH B B TIMA VI D

H nz R Total Rem val of the Left Lung f Bron chial Carcinoma (Tt ! E tupat d linken Lu ge wegen B h ! m) 4 h f k!

The removal of an enti e lung with the pleur intact is an operation with his me comparate ely ell. The chief da ge i the excus nof an entire lung as in the excus nof single lob s lies in injury to the bronchus. Fimphys ma of the methast wait and of the other lung must be avoided. The refort i disecting out the bilus the greet et c re must be taken not tonjure the ple ir Following this disection is the pleura must be very refully successful and the stump in the lies of the document of the lung with the stump in the lung with the stump of the lung who have been careful for can be did not contain the lung with a fairt the vessels and the box chashave been careful for can be did to cor the hus wheth it he pleural cavity shild be losed

primarily or drained has not yet been decided. In the excision of single lobes drainage and tamponade are the mea ures surest to prevent infection pneu mothorax and emphysems. In the removal of an entire lung the pleural cavity should be closed and primary healing obtain d because of the difficulty to be expected in curing a later empyema

Hinz reports the case of a woman 56 year of age who following an attack of inflammation of the costal pi ura became progressively weaker lost weight and complained of pain in the left side of the chest associated with a slight cough

Over the lung on the left side posteriorly and in feriorly there was slight duliness and in certain areas slight bronchial breathing and catarrhal sounds were noted. The findings in other parts of the body showed nothing abno mal Further clin al observation confirmed the suspicion of a malig nant tumor A diffuse spindle shaped swellin ap pea ed on the left thoracic wall in the avillary line in the region of the fifth to the eighth rib

roentgen picture revealed a spindle haped tumor which had partially destroyed the fifth to eighth ribs The operation was pe formed under positive pres sure and anæsthesia induced with chloroform and ether First a large nedu culated skin flap was formed extending antenorly as far as the breast posteriorly as far as the border of the scapula and down rd to the minth rib its ba e was up ward almost on a level with the ax lla The entire thoracic wall was then divided cm from the skin inc sion and the base of the flap and the entire thoracic window with the tumor was remo ed. On di s on of the thoracic wall no adhesions or exudate were found between it and the lun, The lung which lay e posed in the window in the thorax was

which was the si e of a goo e egg firm and nodular

lay in the middle of the lower lobe and extended

well inflate f and breathed re ularly

nearly to the hilu Since excision of the lo er labe alone was impossible the entire lung was removed Hæmorrhage was not severe The bronchus was doubly ligated with silk, and the mucous membrane lying distal to the ligature was destroyed with the thermocautery The previously loosened pleura was then dray a carefully over the stumps of the ves sels and the bronchu an I closed with a number of catgut sutures After further resection of the ends of some of the ribs and very careful hæmostasi the skin flap va turned down and suture! firmly s ithout drainage of the pleural cavity. Infusions of salt solution and camphor were then given The immediate reaction to the operation vas roo!

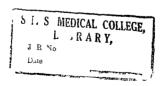
but on the third day the patient died with symptoms of increasing cardiac weikness and dyspnces

R 1 SCHLE (Z)

Sp ito F Ti e Significance and Mechan sm of Production of the Pulmonary F ndings Follow g the Intraperitoneal and Intrapleural In sect on of Cellular and Inert Elements (Sul e sul me anismo d rrodu n di spec l rp ti polm a consecut vi ad m oni t neals d nd pleurs h d element cell la e p t neals d nd pieuri is u esci d l menti s e t) A ch de obsi g 100

In a set s of experiments on rats in which the author injected into the peritoneal and pleural cavities cellular elements and mert substances such as carmine tale and charcoal powder it was found that the granules which were sufficiently minute were taken up by the phanocytes. The others were absorbed by the lymphatic channels and carried into the blood stream by which they were borne to the lun s The e because of their si e they caused rupture of the alveolar walls with ordema and ham orrhage Following the intrapleural inject ons the absorption was slower JAMES V PICCI M D

TV1 337



The tumor

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Bloodg od J C Operations for Inguin 1 Hernia Under I cal Anæsthe ia 1m J S g 19 3

In the author a c set of ingunal herea slocal seashcasa i unducted with a weak solution of proaine (o 25 p r cent). Before the operation of proline is seen to a light dit for forst eight because to cathartic is given. On the morning of the peration the local sare moved by enema and alight breakfast i given. The skin is prepared in the breakfast i given. The skin is prepared in the unit with the majorit of patients do better with out the hypod form in meeting of im riphige.

The lue of the skin 3 1 ton is infiltrated subsequently until it stands out I be a large hire. The di 100 of the skin and fat is printers. I send of the skin and fat is printers. I stand touching it and only a small area of this fascia is exposed at first. This area is then infiltrated the solution being injected into and beneath the spin content. The standard is the solution being injected into and beneath the spin content. The standard is the standard in the standard in the injection of the standard in the injection of the standard in the injection of the standard in the standard i

then insensitive

The skin and fat a e dis ected upward and do n ward until Poupart ligan at one half of the sheath of the rectus and the aponeuros s above Poupart s becament are well e no ed. With the index inger tern I ring the aponeuros s is divided over the inguinal canal until the int rnal oblique muscle 1 vell exposed The aponeuros then retracted and th anæ thetic utiltrated on th under surf ce of lo part ligam at adol the aponeur sis int the muscle fibers of the te nal oblique and beneath the shath of the r ctus do n to the p b c bone When the aponeuro 1 is dided it is found that the pr vious subaponeuro s infiltration has m de or I matous all the tissue in an I about the ingu nal canal If the nerves a e seen they all o are injected but this is not e sent al

The first step n th s latun of the sac is the separation of the int n l old que from the reg on f the neck of the sac and the d visi n of the cover 1 go of th sic. This step expo es the peritioneal pouch. The latter c n be infiltrat d on all a descript the picture of the thinking the servent the picture of set The internal oblique is retracted upward and out and and the peritorenum serposed above the neck of the sain infiltrated opened and the neck of the sain infiltrated opened and the sain comentum or 1 test e the pit entire the pit of the pit of the sain of the pit of the p

When the contents of the sac have been card for the pertioneum is infiltrated above or belthe neck sufficient being, left to allo a good setuof the opening. In dividing the posterior portion of the sac the sac and the veins must be is lated by blunt discettion.

The opening in the per toneum is closed with fire silk or chomic gut. If closure of the wond be comes painful all of the structures are infiltrated

In the ord nary here a with a good copping tendon the cord so not transplanted. An imbrased suture of the sheath of the rectus and interest of the sheath of the rectus and interest of the sheath of the rectus and interest of the sheath or catgut. The lo er to sutures also a include the conjound tend on. The edge of loops with the sheath of the rectus the sutures of sheath of the rectus the summars factor and appears to the sheath of the rectus the summars factor and part of the sheath of

CARL D NEID 10 MD

D scomps P Tle Treatment of P ritoneal T berculo i by Laparot my and Helioth raps (Lt t att ment d 1 i berculos périto !! ps lapa t mue t 1 dation s 1) B || 1 m |
Soc de ch d P 19 3 xh 62

Primary personeal sessons are rare. Listally there is a viscer I focus. Small learns of the over apprentix leocureum coli. fleures etc are sufficient to provide an exadistic personative accidence or subpersonate lymphanestic and plastic personative. Cirometry does not exist be berculosis and an acute co. Lion does not existed to the militaritive scienolymph to type of personate in viscoloment synbian is n. miports it most state of the present sensitive scienolymph to type of personate in viscoloment synbian is n. miports it might sensitive scienolymph to type of personate in viscoloment synbian is n. miports it might sensitive scienost sensitive scienost sensitive scienost sensitive scienost sensitive scienost sensitive scienost sensitive sensiti

All forms of pentonit — cute sub cute and chrome tuberculous and no tuberculous—are and field by h lotherapy. If the per tool tree tools appearing the per tool tree tools appearing to the per tool tree tools appeared to a vaccraft focus to surger, either before or after opent on. Use rist influe cute the autho has sen active adhes a circarcial centre due to open tools. Our tools are too the author of the per tools of the per to

In case of appare thy primary, a rous pertion its in which there is no clerily determined isceral lesson and the chinical findings are pa a and a metare palpable res tance of the abdom nal wall the auth adv es hel therapy first distribute cases he hother apy suppleme ted by pecific therapy. As a rule he ling ensues without operation

When hehotherapy doe not cau e ameloration and the diagnoss is in doubt an exploratory laparotomy should be done. If a visceral lesson is found it should be removed. Postoperative helio therapy in these cross especially when liparotomy revealed only pentioneals leto is without adhesions has given markedly beneficial results.

In the author opinion every ho pital should have a solarium. In regions where the sunlight is brief and inconstant diffu e artificial light may be u ed Heliotherapy is begun with a brief regular ex po ure to m ld rays The duration and intensity of the e posure are then gradually increased until mass ve doses are tolerated The patient is pre pared for final treatment with direct and massive doses by indirect pre operative radiation. The sudden application of inten i massive doses may cause sympathi o bulbar shock indicated by changes in the respiration cardiac rhythm arterial pressure thermic regulation vasomotor phenomena and glandular secretions The rays should be filtered by screens and selectors so that only the short wave lengths of the cold part of the spectrum from the blue to the ultraviolet the so called chemical rays are effect ve The rays of the warm part of the spectrum are eliminated by screens of colored glass

uranum glass etc
The value of rays of different wave lengths has
not been establ shed. Because of filtration of the
thermic rays there is too intile utils ation of the
halpha and beta rays. In order to obtain the max
mum action of the chemical rays it is important to
avoid all interposition that diminishes their strength
Glas dust vapor fumes fog etc rapidly absorb
the rays of short wave length. For this reason
helotherapy is most effective at he hal littudes.

In conclusion the autho state that in helio therapy as in all radiation treatment the patient should be kept under close observation with regard to his reaction Watter C Burker M D

Bonnet B liary Pe tonitis (A p pos d pé iton t bili es) Luo h to 3 % 527

Our es) Loo n to 3 x 527

The author reports three cases of peritonity of

bit ary origin

CASE 1 A woman at ed 40 years was subjected to an emergency operation for peritonitis at night without complete record. The per toneal cavity was found filled vith ble The gall bladder was suit ed against the abdomin I wall. Death occur ed the same might.

CASE ? A norman ged 65 years with an eld irreducible ; gunal Bernis was sensed with an attack of repeated vormiting for two day, and stoppage of the bowel fo faces and ga. The ab domen was uniformly distended and tender eservily under the Iver in the night upper quadrant topolaced under the lever in the night upper quadrant troplaced with the lever in the safe topolaced the safe was no icterus. At haparotony a large quantity of purulent fluid escaped. The gall bladder was lage black hard and completely adherent

to the surrounding structures. The coll de sac was dramed and the gall bladder region excluded by a compres. The pattent's condition did not permit introduced to the pattent of the pattent of the peration potential to the colleged. About five months later a cholee it stoomy was done and a lar e calculus which filled the gall hladder was removed. In operation was complicated by the adhesions due to the previous bilary perforation. A drain was placed to the ligated eyste due; Postoperative pulmonary complications again developed but the patient made a complete recovery.

CASE 3 Three days before her admi sion to the hospital the patient a woman 70 years of age ex nemenced a sudden attack of abdominal pain vomiting which became bilious and stoppage of faces and gas When she was examined by the author the abdomen was tympanitic immovable and painful throughout but especially in the right ut per quadrant. The pain radiated to the back and the left shoulder Immediate operation under ether anæsthe ia revealed a moderate quantity of free perstoneal fluid an abdominal cavity filled with distended intestines and a large quantity of brown bound and pus around the gall bladder. The under surface of the gall bladder was black and gangrenous After the affected area had been walled off the gall bladder was opened pus and calcult were evacu ated and the wall was sutured to the edges of the parietal peritoneum. Enterostomy was done for the paralytic ileus. The abdomen was closed with local drains e below the gall bladder which was e cluded. The pus showed bacteria but the cultures remained sterile. Three weeks after the operation when the patient was apparently recovering she developed respiratory complications Death occurred suddenly three days later Autopsy revealed pulmonary congestion no bronchopneu monia pus mixed with calculi in a reces of the gall bladder and marked narrowing of the common and hepatic ducts. In the authors opinion the narrowing of the biliary pa ages was probably secondary to inflammation in the cystic duct and an early cholecystectomy would have removed a source of septic emboli WALTER C BURKET M D

N uJohs H Exper mental Studies on the Effects of Intrape itoneal Injections of Ether (E p im ntelle Unite uchu gen ueber die Wirkung it pe t weal r verbet n), tio n) Mo issich f G b ish is Gy k 9 2 1 255

Following the experiments of Hochne and High mann on the intrapertioneal injection of oil and those of Pinard on the action of various drugs on the prisoneum of dogs the author studied the effects of intrapertioneal injections of either in rabbits In optimal dogs of the time of the was found that the optimal dogs of the prisoneum of the prisoneum of the prisoneum dogs of a Cem. The seven experiment according to the prisoneum of the prisoneum of

incresellum thistif lasarid cerl in from o le to the h the le techt t t the tillicha to smilit mat raf minut safterth y the transmirs in the white till ill who has not need r califord tillienta

In ni 11th Istics featherments sho I it the fri te sentint ette Dine urling illtlipto there ut li it cet etes fette c d t that I want eith r through erv ut j non rth 1 lock Morett nof th ugh th pe it un k irt I with

tr rl v tat le

It is ell at the the x few itin ith tin is entherme or the unit of the plant of the process of the unit of the process of the unit of the plant of the unit of the uni

Weber (D th Foll wight Loc of Ithe in Din efficient illigi V 5 1 2 4 1

When the sett threshing from the line of war and life in the line of war and life the line of the line well the resiling frontle t l tar Int It par nt w frent legit fall huhu tiled at the trade tile í a

CASTRO INTESTI (AL TRACT

Bram W A nd M r k A C tric Sypl III A Rept t of Tw Cases Ir sed Anat mirally La fee W J Syptill f th Stomact S & Gr OI II

Bran and Mexik m no the other the lterit e ontains the first fift x m t l 250 ses of g tri svit l n h h tl l n n s w basdsib n bm l d rl i l ilne Fle pt I fet fet in which the anatomical r I will nell of the tout stantiat the lagor. Tother illin mobile they

allt oth ra

In first ewisth the want cers !! Venereal infects n v d ni 1 The symptom f t appeared the m the befr the patient ad mis on to the h pital -ds pret p lpitati n ordema of the ankles mark desight I sand po gastric pain cur g about five numtes aft r ing The weight I same of it in the firtt o

I hysical ex nn tion r v aled emaci ti n m t 1 antartic uffe ev It ni me in tirght I get from the !! IW ernannt to strongh coult e Il Iw IIm alsh riaro foroc m Ire hi rolling alwayshe ! If t tal city we to Th test fre cult by I I fect in the para med a

M perati n a tol r rese ti n of hat o e th 1 of th suffirst d t such wall wa 1 and a flid roth II operat in performed Specific tr tr nt w then given Tor ett strethe ir to the estinth I gair d so lbs ard a smit te

The seco I case reporte I was very a milar to the

frat the authors I custly an tomical fit es of the tel pe it usatlen the The fa ngeriore TI char ters tie cf sighil s w r multigle shall l irr alar ul r ti tlick n e of t a brid na vascular intitrati i ar l I Tuse lyn rhos

I int trate Th I lette fg tri lue co sa of ergetrigin by a sitts mirked e as aut nitt transcripts of land. The jut the filled with corresponding tr ten nt oft n ji li a el ical eur. The article

allutrat II an ex ell t fra ing of a g 3 of man a late phot ma to raph. An ext n to Itt was a spent!

I arm ar s ates that the ! retal Le weel

thi fthe st he en nts dicultes see a t line Wa rmann t start the pres ree of cla the evil n and the l al picture is n t charac

If ref it ser elegate so The ages of the t tint n lifern zat any area life i ration fiths it fal mothst naevers lingly itafl gifer tanffood wre wat In the rhelm ght I s In an c th Wa mann t t was postive If poacile w fintin ery case Tray exami ati n r 11 lly ar ep loucles an thornsthout ivi i tr ct on and impairment of g tre func ti n

kesection fith place niru was directed t nd implig train ist my int (raham ef the ent nourll go abetter ein al r lt thing t jejus stims al ne Tarin re c n l les ti t succes ful m lical tre t

m nt pe ill onl i e rlega tri sephile Inl te th per n n nt imp rm nt of ga tric m t r 5 funt n urg ry i preferable. The operat n of hoice is a liver ext n. J i W N use MD

Br wn C F Iu t n n C B H rtman H R nd Rowntree I C To l Nephriti i 131 ri a d D odenal Obstructi ni Rena In ufficiency Complicating Ga tric T ta y

It t e er tovem a at I le th often result from pyl ic or duo nal obstruction has long been kn n anitic synlome fg strict tany has been recognized Death has been ascribed to various causes It is believed that senous reral damage oc curs in cases of h b intestinal ob truction e pecially that as ociated with gastric tetany but the influence of the renal damage on the a sociated conditions has

not been given due consideration The toxxmia and the clinical syndrome resulting from high intestinal obstruction have been carefully studied From this study the following facts are

esident

: Complete continued ob truction of the duode num and upper jejunum causes fatal tovemia

The ob tructed duodenal contents when in sected into animal cau e ymptoms of inforication similar to those occurring in animals with obstruc-

3 Decreased plasma chlorides increased carbon dioxide combining power of the plasma and definite

nitrogen retention occur

Ommon vary with regard to the nature of the toxic substances Whipple and Drag tedt have ascribed the toxxmia to a proteose and the sug we tion of Gerar I that hi tamin is responsible for the taxmus a worthy of note

In this article the results in eleven ca es of duo denal toverma with clinical pathological and bio chemical studi s are reported. Two groups of cases are considered the pre-operative in which obstruction folloved an organic lesion involving the duodenum (tive cases) and the postoperative in which organi or function il sta is follov ed operation (ix cases)

The clinical picture of duodenil toxenna is char

acters ed by the vomiting of large amounts of thin serous bile stained fluid usually without nau ea or epigastric pain but with a feeling of distention and distress which is releved by the belching and vomit The hock manifestations are dehydration a florid complexion high hamoglob n low blood pres sure asthema manifestations of tetany pa a the ia tingling twitching and pair In the chroni cases D in may be evere in the extremiti s before the app arance of ma ked gastric symptoms. Con vul ons and pasms omet mes repr enting term n al changes occur in the severe ca es Symptoms of uramin such s heads he mental abe rat on et are common

I vamination of the blood revealed as interesting features of the condition a low level of chlorides a high carbon dio ide arry ng po er of the nl sm and a high le el of blood urea and c tin n urine contained all min and cast and r nal func tional te tore all dhigh alues for urea in and dec eased exer tion of phenolsulphonephthal

Insucrees a which p thologic studies aere made har ct r z d b a ut d gener tive changes in the tubular p thelium o d fluse n ph i tis was f und \o marked changes were s en in the glomerul e c pt 1 one 1 tance. Na ked dil tati n of the stomach and duod num w s n ted in ll ca s that came to utopsy Definite changes in the mucosa of the duodenum ere seen in only one case

The prognosis in the pre operative cases depend larg Is on the lesion. The alkalosis is of less con sequence and more easily controlled. There may be chloride depletion and renal insufficien y with re covery I re-operative medical management or p lliative dramage may be nece sary Blood urea above 100 mgm for each 100 c cm and a phenol sulphonephthalein excretion of 10 per cent or less mean a poor surgical risk

The postoperative condit on is apt to prove more serious the on et is more acute and the cour e more fulminating In both groups the d gree of renal

injury is probably the determining factor Except in cases in which the operative risk is too great the treatment is primarily surgical Drainage to relieve the obstruction a usually employed Etherization may be undesirable because re : tance is markedly lowered by it in cases of hi tamin bor on ing Gerard ad i es the use of nitrous oxid and ors gen. In the medical treatment drainage by means of a ston ach tube and frequent gastric la age are necessars Normal salt or Ringer's solution are given by rectum subcutaneously or intravenously to replace the lost fluid A low protein and high carbohydrate di t i gi en becau e of the accumula ti n of mt ogen in the blood Bucillus acidophylu or buttermilk is given at times to produce an aciduric inte tinal flora. Hydrochloric acid i given to com hat the alkalosis from 1 to 2 c cm may be admin i tered b stomach tube or from 2 to 4 c cm in bh sological salt solution by rectum Ten p r cent calcium chloride solut on in do cs of from 1 to 2 cm is dministered intravenously for gastric tetany. It is important to word odium bicarbonate in gastric tetany and duodenal toxemia because of its toxic properties and the coe istent alkalo i

LOLIS S FALST M D

G bson C L Acute Perforations of the Stomach and Duodenum B to M LS J 10 3 1 vx

The diagnosis of scute perforation of the stomach

and duod num is sometimes rendered difficult by 1 The absence of a history of gastric disturbance 2 The abs nie of vomiting after the pain

3 The pre ence of blood in the somitu is rate

4 I am in the lover abdomen particularly in the r ght il ac fossa Thi is due to the extravasation and accumulation of fluid

5 Absence of obliteration of liver duliness in early C3865

As a rule the damosis i easy if the possibility of the condition i borne in mind. The u nal clinical I cture is that of an acute on et with collapse and I dominal findings in a patient vith a history of g stric d turban e Secondary or referred pa n in the l ft supraclavicular f sa a very characteristic f ature comes on shortly after the origin I pain does not last long and is usually forgotton by the patient unles he a questioned regarding it presence of air in the abdominal cavity may be

demonstrated by the fluoroscope. The escape of air from the abdomen when the wound is flooded with water and the presence of ingested methylene blue in the abdominal contents constitute positive proof of a perforation of the gastro intestinal t act

In the author's series of fifty in ne cases operated upon there were only four deaths. After the first twenty four hours the mortality quickly ris-66 per cent HARRY W F VE M D

Gi nolla Tle Rôl of the Vagus Fib rs in the S reical Tr atment of Ga tric Ulcer (Du rôle de linners t n des filets d gues dan 1 ment harurg al d lul e gat q) tr it ment

The stomach is supplied on its anterior and poste rior wall along the area of the lesser curvature by both vag The area along the greater curvature is supplied by fibers f om the coclear plexus and the pyl ric portion the sphincter and the fir t portion of the duodenum by three trunks of fibers from the hepatic plexus Sectioning of any nerve trunk reduces the activity of the part of the st much it sun ples Gianolla therefore recommends nerve sec tioning in the treatment of the hyperactive stomach with hypersecretion and to lleviate the pain of the gastric rises of tabes. For the treatment of eastric ulcer he recommend re ection of the lesion supple mented by nerve sect on JAME V RICCI M D

Fraenk 1 A Progress in the Diagn i f Cancer and Ulceration of th Stomach by Means of Cin matograph c E amination by the Roent gen Ray (Pg deld got dlå ryd la ûler destomago po md del pir / c m t gráfi de l , rontg) l / M dril o 3 61 I og de

The types of gastric motility which may be differentiated are of relatively littly importance the chief object should be to ascertain whether or not movements occur. When the character of the

tumor is di tinctiv evident in the roentgeno ramcinematography is superfluous

In his roentgen ray examin to s the author has frequently found the perist lis so indi tinct that d agnos s was impossible and cin matog aphic investigation was the only method of solving the problem O e of hs pictures of g str c cancer sho ed the peristals s a ested in the less r cu vature just before the pylorus. On subseque t r sect on the absence of sig in the roentgeno ram was e pl med by the fact that the tum was still encumscribed and had not penetr ted to the external surface of the stoma h

As a mple ulcer do a n t ch nge the per stal a cinematography is of littly value in such cases

Chee er D Ti e Operative Curability of Car cin ma of the Stoma h 1 S g 9 3 lxvv

With respect to the question of op t e ura bility Cheev r naly ed all uses f carcinom of the

stomach treated at the Pet r Bent Brigham Hoti tal in the period fr m 1012 to 1022 The most formidable obstacle to success seems t

lie in the fact that patients seek surgical aid too late because of the insidious course of the disea e In the fairly advanced cases the duration of the symptoms was six months or less in 50 per c nt and one year or less in 80 per cent at the time the patient entered the ho pital In 30 per cent of the cases the initial symptoms or signs were such common complaints as weakness and d bility general ab dominal pain constitution pallor backache etc. in 25 5 per cent epig str c pain in 10 2 per cent epiga tric distress after meal in 11 2 per cent belching in 85 per cent nausca and som ti g in o 8 per cent a mass in the ep gastrium and i o 4 per cent bloods vomitus Sixty six and one half per cent of the pat ents were males. The condition is not rare belo e the age of 40

I gastric ulcer history was given in only 7 6 per cent In 77 9 per cent there had been no sign of gastr c ulcer and in 15 5 per cent there was a qu s

tionable gastric ul er history

In 52 5 per cent of the 236 cases a rad cal ex ploratory or palliative operation was possible in so t per cent which were explored a palliative o rad e i operation was found impossible a pall alt e operation was done in 22 4 per cent and a radical operation in 0 7 per cent live per cent of the patients refus d operation. The operative mo tality was 20 8 per cent n the cases subjected to explo ration and 3 per cent in the e subjected to a pall ative or radical operation

In the moperable cases the life expectancy as less than one month in 448 pe cent and le s than four months in 79 4 per cent. In unoperated cases it was two month or less in 96 per cent f om two to six m nths in 27 7 per cent from six to t elve months in 32 pe cent from twelve to ightee months in 77 pe cent and eighteen months r 6 pe cent In ca es recei ing pal ia tive treatment t as less thin fou months n 3.3 per cent and more than four months 2 73.3 per cent

In case receiving radical treatment it was les than ne year in o per cent from one y ar to a yea nd a half in 30 pe ce t from two nd a half to four yer in to prent and seve years in 5 per cent I five v reur was obtained in 13 per cent of the operable cases or 12 per cent i all cases

Ch ever onclud s that carcinoma of the st mach is curable by radi al s g cal operatio s at the ex pense of a high but ju tifiable mortal ty

MLMSNVD

Jiménez Garc a L Intestinal Oc lusi n Due t Biliary Calculus (Algu de a l oci 6 test l po si l b l) P Mddgg

Th auth reports a case f ntesti l'occl ion from bili ry calculus 1 a woman ged 55 years

At it e time of the patient's admission to the hos pixi there was slight muscular rigidity with distention round the umbilicus. The pressure and frequency of the pulse were goo! in I the general condition excellent. Vomiting half not occurred within twenty four hours and as small quantities of faces and gris were explied occusion was not evident. At the end of twenty four hours recurrence of vomiting in levticid surgicial intervention.

An infer umbilical laparotomy performed under spinal anasthesia reverled an enormously dilated and congested lowel and a large egg shiped bilary cal ulis at the di tal end of the small intestine. The cilculus was removed and the wound close I in the u uni way but the patient died the following div

The author discusses the frequency of intestinal occlu on by bulary calcult an I desembes the formation and migration of the stones. He emphasizes the difficulty of diagno is and enumerat as the most common symptoms. I arily operation is indicated five author prefers enterostomy to enterotomy or enterectomy at cun his done un ler local anaesthesis. The operations should be preceded by Jurge Dayrow that the operation should be preceded by Jurge Dayrow distant and the site of the occlusion. The techanque most frequently used for the removal of the calculus is transvers, enterotomy at the site of obstruction but if the intestinal lessons are so senious that there is langer of perforation riter suture enterectomy is in facted.

Rol de C. The Pathogenesis of Chronic Duodenal Ulcer from the Point of View of the Mech no Anatomical Dispositi n of the Duod and Builb (1) e P th g c d h m h n Duod g h waters unter dem (excitats wal I d r m h c h a t m h D post n des Bullu du xden) B 1 z M Ch g v 34

The author begin his dis ussi in with the state ment that peptic acti in the biline factor in the deelopment of all chrome ulcers can be effective only in areas suitable for it. The fact that both chrome doudenal ulcer and che me gas trie ulcer appear at distinct spots suggest, that at these points the conditions are jarticularly favorable.

The chronic peptic ulcer of the duo lenum makes its appearance in the upr rmo t port on of the duo lenum usually in the potenor and upper wall. This portion of the du linum prises peculiar antomical relations in t shire libit the other potential.

ti ne

In stud s made by the unit ron cadvers is for in the upright pot ure the a pried an timeril relitions of it due lenum to the pin lecolumn liker spill bludy rail pint; were called Te be usually pure of the bull lenum; ompressed and be usually pure of the bull lenum; ompressed and be usually pure to the bull lenum; ompressed and be usually pure to the bull lenum; of the bull lenum; of the superior ports in of the potential pried to the superior ports in of the bull lenum; if finhs after int to organs which he e

to lenum 1 frmh oth r nt to organs which ha e little flexibilits. Bestim the 1 Tree clamp there is a mall climp the gill bil dder in front and the

hepatoduodenal ligament 1 chind hich cau e a sort of stenosi

In addition to these anatomical piculiarities secondary factors such as tipic totoling continuous work in a bent over position pinal diformities an increase in the intra addominal pres ure and local spatial contractions are of particular importance in explaining the development of ulcers in the duodenum. Thus the frequency of duodenal ulcer in the male may be explained by the sharper transition of the abdominal convexity of the spiral column into the addominal concavity. In addition to the continuous pressure the an-ular tran tition of the upper portion into the descending portion plants at olders it retails the passe of the duodenty plants are the same of the duodenty of the upper portion into the descending portion plants at olders it retails the passe of the duodenty of the proportion.

The finer structure of the upper portion of the duodenum is also different. The murcous membrane shows a parent of herking's folds, this leng associated with frm fixiation and increased tension just as at the lesser curvature of the stomach. It is possible all othat the abundance of lymph foliucies with their thin epithelial coverine plays a part in the etiology of chronic ulete. The small arterial supply which is from one source only—the ciclic artery—may be another factor.

Regarding [unctional factors the author calls attention to the fact that the portion of the duo denum which is attached to unyielding organs is the portion mo t expo ed to the impact of the food coming from the stomach. Therefore the posterior and upper wall of the bulbus duodents the site of the greetest mechanical triatation. Historysw (2)

Konnecke W and Jungermann E The Symp toms and Ethlody of Post perative Jejunal Ulcer (Beatr ege zu. kl. k un! Act ol gie le post pe i n Jej alg schwu.) Ach f kl Ch. 921 x 3 6

At the Gottingen surgical clinic seventeen pepticiders of the jepinum were found during the past len years in 50 cares of ulcer and any pastic neutrostomes, lourteen of these cres were operated upon In two 5 second operation was n cessary, this raising the number of operations for jepinal ulcer to sizteen I ifteen of the secentien patients with jepinal ulcer were males. In the majority of the cases the jepinal ulcers leveloped very soon after the first operation. The time between the first and second operations ranged from two weeks to finche years.

The dagnosis of peptic ulers of the jejunum was mide before the second operation in mine cases will be set the second operation in mine cases with the second operation in the second of the second of

he considered

examinations were made, in eleven cases the empty e of the tomach was leld ed but in only two were

ther upmi takables ensofulcer

In el en a es th ulcer h ! t erfor te l'into sur roundin structur's In ten it was restricted to the terunum alone in five it is gastroieunal. In one case it develope ! B aun s an stomosis follo v ing an ant no g tro-enterostoms. All of the ten I junal ul ers but als o e of the gast o jerunal ul ers had neriorat d into the surrounding structures

The sit of the primary ulcer parti ularly if it is the duo lenum as of the atm st etiological am portance becaule of the cicatrical or split cistenosis f the duo lenum wh h t may cause. The type of operation whi h pre eded the peptic leiun I ulcer is of importance only in its relation to ob truction at the pylorus or in the d o'lenum and the d estive

power of the p lone portion of the stoma h The pylori portion of the tom his as is well known n important ce t r fo the regul tion of the gastric mech ni m an 1 r guintes 1 o the production of the juice of the fundus his contains pep in and h d blone act I Th secretion of the pylone por t on is alk it e d neutr ! If the content of the fundos ar to acid reflex act on on its entrap e into the pyl portion stops the further p o luction of h dro blon a d f the chyme 1 not acid enough hen it e ters the pylo ic portio the refl x func tion of the pyloric pertion causes an increase in the prod t on of hydrochlor ca id This normal method of regulation is thrown into di order by a gastro enterostomy but the disturbance is still greater wh n v n Eisel be gs undater I exclusion 1 per f med in which case the pylor c portion contains only it own Ik his secretion and the bakward flowing duod al secretion. The dig str e action of the 1 e of the fundus is then too powe ful an I causes pepti ul er. Howe e it is imp obable that the loss of 1 ylor c function is the s le condition e pons bl for th format n of pept c jejunal ulcer

In elv n ca the sites of the ulcer and the gastro-ent to tomy were resected once by transvers esection in ne times by the Billroth II and once by the Billroth I method In to case of peptic jejun I ul er follo ing ten g stro nterostomy plus Br un s ma tom is the ulcer lo e s excised In three cases of 1 | I llowing posterior gastronterostomy an nt ri galtro nterostomy with

Bauns anast mois w d ne

Of those pati ats o wh m the rad cal op ation was terformed one di d of peritonitis nd o e of empy ma foll wing in m nia Of the rem n g nine fi e had good result and two very good esults (o of these i lhdf lpa ot mies for ule rant a fi lly curdle ect on with a Billroth I operation) In one call the ult as n t good ndase ond the election w process ry The result the toe es fexcim we lo poot In o ew ulcer ppeard nim the other resection o the old fund tal ! a lo th tire pyl ne portio of the t nach w s n ces ts

ub quenti Of th thr p lliative operation

the results of one were very good and of another very poor those of the third are unknown

Because of the possibility of a later pentic reinnil ulcer both you Eiselsberg's pylonic exclusion and simple gastro-enterostomy are regarded with dis favor Althou h the physiological relations follo ing transver e resection are good recurrence of the ulcer follows this procedu e compa atively fre quently Without doubt the best operation [e ul er is resection by the Billroth I method. Resect of by the Billroth II method is associated with the least danger of pentic sesunal older when the pyl no no tion of the stomach 1 widely resected and the primary ulcer (in the duo lenum) is also remo !

Maucla re Ti U e of Serou Graft After the Remov I of Membrane in M mbran us Perl citis nd Perisigmoiditis (1 sa de g ses sé use p è 1 bl ti des m mbr s d la pén il t m mbrane t i ns l pé igm id m mb us) B Il 1 mém S d ch d Pa

When this is not possible Frusterer's method may

931 Frequently in re operating after appendectom it i discos red that the persisting symptoms a c due to a memb anous per colitis Omental adhe sions are allo common Bands of adhe ions ma le found binding the colon to the abd minal wall and theur is bladd r Theomentum; often roll dup andd f msthestomachby pulling it to the right At one time Mauel it merely rejected the membran's but as they subsequently re formed and the pain persisted he ad pied the practice of removing them and perform ng a colopexy As the procedure d d not prove entirely satisfactory h now supplements remo I of the membranes and colopery with the use of s rous grafts D ad rous grafts of ta ned from sheep and presery d in alcohol are u ed. The ascende g and tran v r e colons are wrapp d s p aratel and a lateral colopexy is then done. An ther graft is pla ed on the m soc lon to prevent its con traction The suggestion 1 made that fr gments of amniotic m mbrane obtain d at cæ tre n section m ght be employed.

Usually the glafts take vell. They cannot be used ho e r hen the a cen ling col n is gre il) d fo med or short e! In such c s s Maucl ir p rf rms a c lectoms In his e pe imental work on rabbits he ployed sheep spet I peritoneum and human amn to membro Shepgrafis lea en t ace Mauclaire has u ed s rous grafts al o in cases of atestinal perf r ti n K togg Size MD

Rollest n H Ul rati Colitis L 93

In co I and ulcer tw colt the a thorex cl 1 s many eyo, nous ulcerative con lit ons such as a bs es rupturing into the bowel appendice abs es m h ni t leeratin d ve t culit s ster il ulcer ton typh d adp ratypho i tutercul

ou leeratio ballary and amorbe dis ater)

ulcerations due to acute colius of known toruc origin such as that followin bethindre possoning the various forms of parasitic colius infective programments and accidents. With regard to the scalled institutional disasters, he states that reserve work by a number of secolomysh has proved this to be an outbreak contracted from carriers hadroning the Type V of the Oxford series of Tlenner dysentery origins or

The condition discusse 1: the sporadic case seen in civil practice which is not from a laboratory view point a bucillary disentery. It i not a specific disease bacteriologically since many organisms are solated. Those found in it frequently are the bacillus coli pneumococci the bacillus procyaneus and streptococci.

Among the fretors favorin the con litton is a diet deficient in vitrinines. McCurn on proved that healthy monkers which are carriers of entameda histolytica may develop amorbic dysentery, hen restricted to a leficie the further stable con ditions organi ms ordinarily of low virulence such as the colon brillis may become pathogenic

Among the complications of ulcerative coliticate perforation localized alsees and less commonly general per tonti. In rare cases structure of the colon from cicatrication fillows extensive ulceration Occasional sequele are arthritic or other so called foe linfections.

The onset of the condition may be sudden or gra fual and its course acute or chronic. An organ i m producing an acute condition may be later supplanted by another causing a more chronic con lition. The early symptoms are usually those of colonic irritation. The leucocyte count is variable. The temperature is above norm 1 in the acut cases an toften norm to subno mal in the chronic cases The development of anomia lepends upon the lo s of blood and the fur tion of the dease. The faces contrin blood pus mu us ni occasionalli sloughs of the mucous membrane The onset of the condition may b a oct te i with hamorrhage especially if ulceration i I win the lon Usually there is a history of abilom nal I scoraf rt rather than of acute prin grs ; ins ; n ; def crition loss f weight and I sof appetite The Viras and little in the diagno i but the gmordos ope i of g e t value

The nitt n has a t d nc; to recur nd us mortal ty 1 501 rc nt it mu tied if ents telifron caret oma tuler ul 1 and foll ultrulceration of the col n

In the tr t in the truction fithe 1 this seldom me essary a tip it is prict ally complete be fore the food scothard: 1 the the uke at diarers. In any the trues r of q strictable view.

Many drugs hab n d ocated for this condition. Chief mong them r the o-cilled intestinal anti-eptics. I r fin 1 ch oul obve oil and many other s mil r prepar tions are used. La age

of the colon with anti-eptics has been largely supplanted by appendicostomy or exceostomy to wash out the colon. Eathorn uses for irrigation a jointed intestinal tube from 15 to 20 ft. long which he in troduces through the mouth and passes into the execute under control of the \tag{x} ray

The author prefers an open excostomy or colos tomy as this relieves the colon from the passage of

faces over the infected ar a

Hurst states that the appendicostomy shortens the duration of the illness to one half the time that it would persist under medical treatment. Vaccines are of questionable value and if given in the acute stages may aggravate the condition.

HARDLY M. CAMP M.D.

Horder SrT Lockhart Nummers JP Dick on W.E.C. and Others Ulcerative Colitis Po

W E C and Others Ulcerative Colitis P o Roy S c M d L d 19 3 x Sert Pr ct 96 Sig Thomas Horder Ulcerative Colitis is mo t

SIR HOMES HORDER Uterature Colitis is most to common in women from 25 to 35 years of age with enteroptors circulator of turbances and infections. The charlest because the first considerable that cause the state of the condition is apple to recur often because it is 51 to condition is apple to recur often because it is 51 to condition is apple to recur often because it is 51 to condition is apple to recur of the patient has apparently recovered. If the patient has apparently recovered II the patient's condition is such that operation is required the colon may be drained by an appendicustomy or attent to the open at the distribution of the patient has been also become at the distribution of the patient of the patient has a conditional to the open at the distribution of the patient of the pati

J P LOCKHAPT MEMMERY In 1909 the mor tality of ulcerative cold is was 50 per cent today because of improved methods of diagnosis and treatment it is 157 per cent

The ulceration may be limited or may cover most of the colon The ulcers usually begin in the solitary follicle
In asylums the condition may be due chiefly to

poor by gene and some you have been great in Chronic colors my following the first great in such as a most c bardlars, and tand great me form such as a most c bardlars, and tand great me to me to the must be the to a second into indication cursel by the streptococcus. Y case is cited in which the infection is a due to mills from a cow with an udder infected vith streptococci.

Recause of the multiplicity of bacteria in the Recause of the multiplicity of bacteria in the

sto is the specife organism cannot be ascertained easily. I air results have been obtained from ap p in locotomy and in attempt to substitute another organism such as the bacillus bulgaticus. This substitution must be repeated and the proper food supplied. Vaccines have not been very successful.

The chief symptom is severe persistent and blook diarrhous as occased with rapid wasting. The temperature is mild except in pneumonic cases Death is lue usu lly to exha stion wastin hemore thage or perforatin

With the aid of the sigmoidoscope the diagnosis is usually easy Bacteriological examination of the stools to determine the type of organi m responsible 1 important

The ulcers usually beal naturally with very I tile or no scarring Stricture is very rare usually it

follows colostomy

In cases not operated upon the prognosis is gen erally very unfavorable. Operation should be done urly as usually it must be performed sooner or later The two forms of operation are

The formation of a artifci lanus t plee th colon at rest. The two objections to this proc dure are first that u wally it mu t be done at the creum a form of colostomy which is very unpleasant and interfere with digestio and second that closure of the open ng may be rendered impossible by contraction of the bowel b I

2 Appendicostomy for ir igntion of the bowel Ih s may be performed under local anasthesia. In order to prevent infection from the causative organi m th append t should not be opened un til the w und in the abdominal will has healed High e emata u eless for irrigation \ catheter should not be to d in the appendix as it may cause lo ghin, A prop is p forme! [pend costoms

ill remain natent niefnitely. The irri ati n can be performed by the n tant A hypertoni solution at bo is temperature should b u e l. Salt s I tion i the best Ave L alver solution such a agyrol r protagol my le emplo di but n t ii r mt nte Kolin f r hæmorrhag s ur milk ith I cillu bulgar and illhave thur tin Th git as h 111 d net ic d ly

W E C Dick \ U rative c l'us may be cau dorig nally b n pecific org n m b t rap d Is tee me a mi ed inf tion. Therefor the mi ed type of a negr th tet eult \ compl te bact olgaleam ating cathi may r qui e thr ek I'h beillus F van u i of on le al l moort n

Agglutinat n an l oth munty t tswth th patients crum r fittl

s tn The infect l in et forma l

ntin the enfiction the lol Cultur of th 11 1 durn may giv

of the cause tyeorg em Ablort untrela l a m esperall hmgll 1m Anny tn f The h sc serum II it n al cxvt's thi f m th pe ph ral bst c f t n may rect liff r e t th ndt nf m nt t alinf t th m t tin llin L S Dings \ 1h f ul

ltis ≤ mfl tlocofb ill d ntr f. but th 1 1 b th s m e not I the diff tt l | Los the grandoťg some hilliber i di " f l m n ti n m i 1 1h (n (t 1 f m th fl f th

rith Hool u! ١ I HIRT Th u nj t f nol 1 t tilet

rum h gr

gor d

results Calcium lactate tends to cont of 1910t symptoms Desensitization by small preliminary do es will prevent an anaphylactic react on Paraff a and saline aperients shoul I be employed to keen the stools soft

SIR CHARLES GORDON WATSON S ra should be tried in acute cases. In those of the chronic type ppendicostomy with fla ine irrigations is most bene ficial The opening should be kept patent after recovery as recurrences are common. The primary forus

should be remove I DOUCLAS DREW Appendicostomy has been d appointing in its results. The passage of the facal stream over the colon ke ps it irritated

M COS H II ART MD

Lockhart Mummery J P Tie T chnique ! Resection and Anastomosis of the Col n f r Tumor P c Ry S If d Lo d to 3 S t Sug 60

Co siderable advance h s been made in the la t ten years in blominal surgery Improvement in d at nosis makes it possible to d termine the presence of an abd minal tumor before acute obstruction

occu s and the has changed the type of operation performed for tumors of the colon In case of obstruct on of the large bowel it is best to relieve the obstruction first and remove the tumor later Abdominal expl ration should be de

ferre I until the intestines has e r turn d to norm ! Simple tube distinge of the caccum will render

e ploration pos ible in a few days

Careful pre-operative preparation is import it Purgatives opium belladonna intestinal antiseptica and I qu i petroleum shoul i be administe ed unt i the bo els have been sati factorily clean ed. It least two days should intervene between the ad min tration of the purgatives and the operation Ch recoal or methylene I lue shoul I be given with the purgative If this does not appear in the stools in f om twenty four to thirty six hours the cleans ? hould be repe ted. The use of ne k or more in that rep rate n a fully su tified

the majority of the lesions oc ur in the sigmo d fl xure thed en h g colon an I the splen c fle ure the diagonal inc on a usually best. This should tend fom er the milline i in above the symphysis to the a le b neath the I st rib With uch in ision and the patient slightly turned on the m ht s de spl nd i po u e of the left side of the colon is blained a d the pl c angle is ery easily r h d Vently th tre inc son h through thick mu culature a hich rea hly heals and nly one nery pt t be 1 ided

If the location of the fesion is in fubt a midline

sh ullhe u !

The old mechanical methods of 1 ming the colon fter resect o ha e be dis ruel as st tch ng 15 m r s tisfact rv Axial anastomosis is u ed fo the the method m !! bowel tut ! t ral nast m most f quantly mpl y d f the large i te ti Th isal ntg of Ltrlan t mos are th tit requires a much greater length of bowel more exten ive freeing of the colon and more time the sub e quent anatomical result is not perfect, and the blind

pouches may cause trouble later

Axial anastomoses of the colon have gi en 1 oor results because of abscess and fistula formation due to the segmental type of blood supply The stitches sometimes constrict the ves els on the mesenteric side thus damaging the blood supply to the opposite side of the colon and causing sloughing. If the bo el is cut at an angle of 45 degree an adequate blood supply a provided and the lumen is increased good results being thus assured. In axial anastomosi careful a eptic technique should be used. It is im portant to protect the wound with towels and to change the gloves and in truments after handling the interior of the colon. The author draws the part to be r sected out of the wound secures the mesen teric ve sel cuts the mesentery and places rubber clamps vell above nd below the area. The section is removed by cutting at an angle of 45 degree

The two cut ends of the bowel are held to ether with forcep and stitched with catgut passed through all of the lave's every fourth or ffth stitch being locked to control blee I ng A fine catgut peritoneal suture 1 then made around the gut and an omental graft stitched around the suture line. The cacum

1 drained by the tube meth d

Other metho is described are those to obtain anastomosis without e po g the interior of the bowel such as c ushing the bo el with forceps and sutur no the outer layers the introduction of one strai ht suture through the cru hed nd and its removal after the insertion of the permanent st tch s and the use of various clamps

The end of the colon may be clo ed by (1) sutur ing ove a clamp and tying the end (2) rollin the crushed ed e in oppo ite directions with two fo cens and tying (3) making a Swiss roll and suturi g (4) sewing over a tapered clamp and covering with

a pursestring suture

In joi ing the ileum to the large gut the ileo caecal val e should be preserved if po ible For a astomos s of the lo er end of the pelvic

colon the tube method is preferred

In total colectomy the leocacal valve should be

preserved if it is not di cased and the great omentum removed The author has had better results with axial than

ith lateral anastomosis of the colon

MARCUS H H Forgue and Mill aud TI e C reulation of the Sig

mold rectal Segment The True Import nce f Su decks P int A Contribution to the Technique of Abdominoperineal E tirpat on cturm (La ulat d sgm nt sk l l lu réll du pr t d Sed k à l techniqu d l trp t o bdo i du ectum) Rev d h P f tle Rectum (La m Ido-rect 1 1 trb t 30-c m

In the ext n iv operations performed for cancer of the rectum ligature of c rtain vessels has resulted

in gangrene of the portion of the intestine nearest the permeum or in cases of resection in the disunion of the sutures through ischæmic necrosis of the intestine. The gangrene is dependent upon failure of collateral circulation. The authors have there fore attempted to solve the following 1 roblems

What are the different di positions of the in ferior mesenteric artery which supplies the sigmoid

colon and the rectum?

2 At what I oints may I gation be done without danger of gan_rene or disunion of the sutures after excision of an intestinal neoplasm?

The inferior mesenteric artery arises from the aorta from 5 to 8 cm above its bifurcation an l passes down and to the left between the fold of the iliac mesocolon to a point near the level of the left common iliac artery. There it divides into two branches the trunk of the left colic arteries and the superior hamorrhoidal artery. In general anato mists consider the colics as collateral branches and the superior hamorrhoidal artery as the terminal

The trunk of the left colic arteries divides into two or three branches which trifur ate and form anas tomoses in a series of arches which give off the terminal branches to the left half of the transverse colon the descending colon and the iliac colon The upper branch of the left colics anastomo es with the right superior colic branch of the superior mesenteric artery and the lowest branch and tomo ses with the superior hamorrhoidal. This is the classical disposition of the vessels. In the absence of the inferior mesenteric artery the left colic arteries the sigmoil and the superior hamorrhoidal are supplied from the superior mesenteric

According to Cuneo and Mondor the collateral distribution of the inferior mesente ic shows two variations one a ladder like ori in of the branches a d the other a fan shaped origin. In the first, the left colic artery comes off alone from the inferior me enteric about 2 cm from its origin while the sigmord come off about 2 to 3 cm below In the second v rintion the left colic and the sigmoids come off at

the s me level and sometimes by a common trunk The number of sigmoids is variable and according to M n lor I pends upon the length of the loop and

the l gth of the pelvic mesocolon

like the coli arteries on the right side those on

th left me t in the m socolon b furcate and anastomose n a manner to form long arches with their convexity outs ar ! From the convex s de of these arches e ape numerous branches v hi h guin the intestin I w It either I rectly or after forming small r arches The upper left colic anastomoses vith the superior

n ht col c and the left nferior colic with the

superio hæmorrho i i

All the na tom s s along the edge of the mesen tery of the large intest ne constitute the marginal artery of the colon This artery has at a variable d stance from the colon being very clo e where the colon is fixed and at out 2 to 3 cm away in the mot ile portion of the s gmoid colon According to Cuneo and Mondor the greater the mobility of the colon the more definite the plexus formation if the anas tomoses and the greater the dist are of the arches from the b rder of the intestine

The suterior harmorrhoidal artery is the ling st and most voluminous of the arteries of the rectum It m & b considere l as the extension of the inferior mesentene artery. It pa ses in the folis of the lumbo sacral root of the pelvic mesocolon until at the upper extremuts of the rectum at 101 s the rec t I wall on the posterior si le between the aponeu retic sheath an i the muscular tunic Sometimes it b furcates within the mesocolon I efore it reaches the rectum but more often it divides at the level of the upper extremity of the ampulla. The results of bifurcation are (1) The right uperior ha morrhoid al artery which is the I reer le cends of liquely on the po terior and right side to reich the anterior wall (2) The left uperior hemorrho ! I arters pa ses down the ant nor rect I will. These two arteries have irregula collateral branche. Linkle the col c terminal the rectal terminals has e no arch fo m tion

The intestin I segm at Lety een the last s gmo I tery nd the hif rests n of the superior harm orrhod lart ry is poorly uln 1 Th por tion whi hi called the p int f5 leck is fille ! by the an stom between the last so moid and the supe r hem reh lil artery Light n f the sup nor I emorrhoid last to I clos this point will

le I to g gren f the r ctum

On the la 1 of jection experiments D tr hs

de the follo us n lu ns r Lgatio o th inf or m

teric art ry loes n t modify the a culation if the re turn trouded the lgatur i ile l bet e its origin and the ori in of its I st import at coll teral br ach which a Les about in blow the promont ry

2 Lgrt on of th t min lp rt of th inferior mesenteric ters i lon this list coll teral is fel lowed by alm st c mpl te los of circulat rectum nd tl re t igmoil ju ture

3 Lg tion of the right and left super or ham o rhoidals le d to uppe sion of the circ lt n in

the cor sponds g ! Ith rectum

The nastomo i f the last sigmoid th the terminal f the if for me ent sc r on of th hamorrhoidals is the later hofe he se els and the chief source f the c liate al c lati n bet see the 1 st p rtio of the s gm ii and the ves els of th ectum If hig ton s do e above this point the I lood may t ll b suppled to the rect m by the ro te of the 1 t an st mo s but if 1 to do below the crit along the turn is done el of this an stom tic h nd there a risk of necro a of the terminal n1

The s tuat on of the critical p int und d cus som what wire ble b t Mo d r has found t usu lly to be ab ut 2 cm belo the p montory

Gangrene of the term; al end of the rectum; a possibility a every perat a on the upper end

whether it is done by the sacral route (which has teen practically abandoned by French surgeons) the ab lom nonermeal route (which is usually the route of choice) or the perineal route (which still has numerous in lications). This gangrene is the result of ischarges due to lack of circulation. In testinal necrosis leads to disunion of sutures fol lowed by infection of the perifectal cellular tissues or the peritoneum

The lemonstration of the circulatory weakness of the point of Suc leck has been made by Suedeck and by Di trichs through injections Ruche ch m de twenty four experimental injections showing this condition. It has been demonstrated also i

se eral autop ie

In perine I amputation of the rectum 2 pre hm nary 1 p rotomy should be performed to permit the correct place g of a ligature on the superior harmorthogial arters. Whil in some cases the rectum may of tun en ugh I lood from fine anastemoses e en when the s perior hemorrhoids is I gated below the critical point this is so rare that

it shoul I not be rel ed upon

In doing a coml ined ab lominoperineal operation the su geon has the choice of sacrificing the distal en I and making an artificial il ac anus or of mobil z ing the pro-imale I without injuring the circul ton nd bri gi g it through the skin at the penneum or attaching it to the conserved anal canal The authors con : ler the sh c colostomy the procedure of choice but believe that the anal segment when he lthy should be swed R SCO JEPSON MD

I A B nign Strictures of the Rect m Jim MA 1031

The difficulty in d termining the chology of ben gn strictures of the rectum is due to the irregular ity of m thods. Hi tories po it ve f r syphil's and po t Wassermann reactions a e not conclusi roof that the strictu es are aphil tic and microscop c examinate no of little value because the early ch r ctensues of the le ons are d stort d by second ary hanges A n suph I tie le ions may be prese t in syph litics

The uthor r ports a stuly of 258 cases \ netv six and s enty fi hundredths per cent of the pat ents we e over 20 v rs of age. One hundred and thirts of ght w re males The duration of s mp t ms was salls o er two seas The most prom nent s mptoms were constint n alternating on tip tion and d rether d arrhor c mps tenes mus betruction incont nence nd th pass ng of blo I and pus Two hund ed and sixteen pat nis h dlor tal strict es o ly thirty feem nt on d def rmed stool Fifts hie pat ents h d a po if ie hi tory of syphilis a q stionabl hi tory a positi e Was erm n re ton or central nervous stem syphil's The ty to of these had had an ope ation on the ectume nop atton for to the pelv inflamm t v d's ase or entamorbiasis. One stric tu e follo d ev toscopic e mination with per forati n f the u ethra and other was associated vith a sinus from a tuberculous hip to the rectum Three of the patients had radium burns and two had been scalded during proctoclysis

Treatment for syphilis is usually employed but is without beneft. Most forms of treatment are disappointing. Resection when possible offers the bet results. Dilatation: helpful but is painful long drawn out and not curative. Colostom's should be done more often. Lour's N. Burn M. D.

Alglave and Saleii Cancer of the Rectum Treated by Radium Therapy After Laciusion of the Dreased Intestinal Segment Condution of Healing One Year Later (Lancer d et m tr & pr radi m the ape ap be sed s n de me tantest Imalade lêt t d gué n ap ès un an) B ll tmc S c d i d P P 9 3 i 10

In the case of a man 50 years of age who had noted the first signs of rectal disease two months previous by an unular growth with infiltration of the various hyers of the rectum was found. Histologic exammation of a specimen sho ed carcinoma.

The first operation con isted in exclusion of the rectosigmoi l segment in two stages in omega shaped skin incision with the open end of the omega toward the medi n line was made in the lower right quadrant of the al domen the anterior musculo aponeurotic layers of the abdominal wall were separated and the peritoneum wa opened The iliac sigmoid was then drawn out its mesentery perforated and the omega skin flap passed through and then resutured in the original location the semoil as made to e tend over the skin flip lke a bridge. It e or six days later when it had become well adherent to the surrounding ah dom nal wall it was divided with the thermo cautery so that each stump extende I t to 2 cm outside the abdomi al wall. In this manner to o s gmoid openings were formed. The upper opening served as a facal fi tula and the lover one ner mitted daily lavage of the rectal neoplastic seg

After several lava es the diseased segment be come su table for radium treatment Saleil placed at the center of the neoplasm 100 to 10 mgm of radium bromite filtered through 1 mm of silver The aluminum cont ince was fire in place for seven

days by a suture at the anal ma gin

Dut g the subs quent esks th patient suffered considerable from test in administration but the quited injections of morphine sometimes say in steaty four hours. Fragments of gangenous it sue of foul odor and fetud is neu nous fluil near eliminated and laxiged out. The elimination gradually cealed until only mucus from the secreting surface of the rectum rem ned Loc | eximination sho ed that the lo at on of the neoplasm had been replaced by cast ys hade, has acticums such been replaced by cast ys that has acticums such by a soft pink he with appearing membrane. The attitud I sums had sufficient continence to

permit the pitient to ome and go and sit at h s
task without inco v nience Occasionally a little

lavage of the upi er segment was nece ar to obtain a stool

The patient's general condition i very good and if healin is maintimed for several months. Alglave expects to close the abdominal openings by lifting the skin flap and re establi hin, the continuity of the intestinal canal by the aid of Dupuytren enterotome.

The authors have used the method of radio therapy described in eight cases
WALTER C BURKET M D

Drueck C J Tuberculosis of the Anus and Rectum Am J Cl n Med 1923 xvv 655

Tuberculo is of the skin about the anus appears as miliary ulcerative or lupoid lesions

as miliary discerative or import lesions

Mil ary tuberculo is about the anus is very rare
and occurs as a complication of tuberculosis of

and occurs as a complication of tuberculosis of other parts of the body

Tuberculous ulcers at the anus sometimes begin

and injury. They may appear first on the external skin or within the anal canal. They are not confined to a sulcus but widen out in all directions. Their borders are clean cut and undermined and surround of by a rise done of induration. There is not much pain with the passage of faces or during the manip ulation of examination. The latter feature distinguishes this ulceration from fissure chance mucous patch and rodent ulcer. Unlike syphilitic ulcerations healing does not occur at one spot while the ulceration progresses at another.

Lupus begins at the mucocutaneous juncture at the anus or vulva as a small soft reddish brown nodule in the corium which later breaks down into small ulcers irregular in outline and with an indurated base One of the thief conditions from which this lesion must be differentiated is cancer Cancer rarely occurs in early life and when it does runs a rapid course whereas lupus frequently appears in childhood and persi ts in adult life. The base of the cancer ulcer is pearly white indurated uneven and glazed and its edges are everted Lupus ulcers are usually multiple and have a soft insensitive base and edges covered with granulations tions of cancer are scanty and foetid while the dis charge of lupus is profuse and odorless. Syphilis is distingui hed by the history or by the presence of skin lesions mucous patches and a positive Was ermann reaction

If the initial tuberculous lesion in the anus i of moderate extent or mactive the treatment may consi t of thorough cauterization with the I aquelin cautery followed by gradual exposure to the sun light

In anal lupus satisfactory results have been ob tained from phototherapy and the use of the roent gen rays Zinc cataphores s has also proved suc cessful

Tuberculos within the rectum occurs most commonly in the form of ulcerative and hyper trophic changes. The mil ary form is rare. Usually the condition is secondary to tuberculosis of the g nital or, in the mucosa is pale and anamic e cept that alout the no fule there is a ring of cone stion. Ultimately the no fules break love into

cup like ul ers

blereative tulerculoses of the bow I is u utily sounds y to pul nonary tulerculoses. It begin in the solitive tollicles and I (s.g. rs. patches but spreads into larg irregul rule is which follow the course of the blo 1 e sels. Beneath the ulceration is a deposit of into six is we. The focal symptoms of tuberrul is the transfer of the sigmoid or rectum are purely blog after the rectum cost of pus blood and muca which mercas until thirty or forty evacuations occur did in

Tuterculou ulceration of th bowd should be blooked for in very cas of judionary tuberculosis with distribut. The linical pictures is judicial to the linical pictures is judicial to the film the blood vessels and in the return speed out regularly (3) a harrhead distribution blood and pus and (4) g ner 1.

emacuation

Amabic ule 1s may be no taken for tuberculous 15 % but the qutent with simched dysenter pis e through many periods of ayniptomitic cure followed by the pis properties of the course in tub reulo 5. In amenda discretion, there is little varion on an the temperature of the course of t

Cancer in the ulcerative stage file the lumen of the g t and cruses symptoms of Astruction

Syphil tie ule r has a punched-out appear nee

with ried edge, while the tuberculous ul er is

Hive plastic tuber ulous of the bo el which is som times omisel with a plus and cancer is haract rized by the formation of a dense hyper tophy. A prolinear of stensor with the kening of the will infound in the carcum and appendix as well as in the a mod and rectum. The patient has the same distributed in the same of the same of

Tube culou peri anal bace an if tula may or may n t be ass ted with tuberculosi elses here About 5 per c nt of perso s with p ilmonary ti ber

culos s l'ave rectal f stula

The syms of a tuberculous rectal fistula are the deach tree of a small amount of thun mlky white mirlifom a alcess which never heals the peence of de indu in the bence of pan on manipulation the presence of multiplicater if op nags in it thinding futbroulou issue and etion on I logical study

The ternal pen g of a tub real us fistula differ from that of the simple fi tula in that instead of the usual small open g there my he a can ity large enough to admit the examiners fin of The skin thout the opening is I d and purple and the ulcer is irregular with und im ned edges and has a pale base. Sometimes the gelatinous granulation overflot he ulcer until the external opening resembles a wart.

A further aid in determ ning the tuberculous character of a rectal fistula: the presence of calchéed lymph glands within the pelvis. Guinea pi modul tions and microscopic examination of a section of the tissue are all o indicated in doubtful cases.

In cases without an active tuberculous lesson eleaber, the treatment should consist in excise of the fistula with a cautery or kinfe and stimulated of healing by duit exposure to suil fish and it cases with an active tuberculous focus elsewher, the use of bismuth holdbrim mixtures in past or emission form is in licated. The wound should first the throughly irrigated with stenle saline or born and advision and then swabbed with 75 per cent could be considered to the consideration of the bismuth sold-form mixtue et is should be closed if the colled on a diffessive. Within X Hisyotecs M D

LIVER GALL-BLADDER PANCREAS AND

Eini m M and Laport G L. Indigoc rmine
a a Functional P rmeability Test of the last
by 1 kM f & M d & c 9 3 (x 1 35)

In Igocurmine a sayed by the authors as a mess of determining laver p meability. The a frage time for too cim of a 1 per cent obtains of the degree to the for too cim of a 1 per cent obtains of the degree to the bill of control patients was first, but must be the highest per cent the time for the appearance of the degree to the degree of the degree to the degree of the degree to the degree of the degree o

White blood counts taken every thirty minutes in the liver showed a normal rise after the in et in of 200 ccm f milk—a finding quite c ntradictory to the observations by Widtl Will W P I WOF I WAGE IN MORE

Triedenw ld J and Gantt W H S me Observations on tl Pl n lt trachlory hthalein Te t a M ns of D termining Li er Functi n lm J M y 9 3 l x 1 5 9

The authors state that the phenoiterizablorphish is need to a valuable means of determining but function but in order to obtain reliable re ultil the preparation us of must be fresh the tube mut the proporty, introduced on the duty mell established. In normal person the length of time claps to day and a consecretion extremely constant from the control of the contr

The test has pro ed useful in checking, up th technique of non surg cal bihary draining. It has been found of value al o in the diagno is of cutrito and carcinoma of the liver and obstruction of the common duct due to stone or tumor. The manner in

hich the tetrachlorphthalem flows may aid in differentiatin cases in which a delay occurs—specially the differentiation of cholelithass—cancer and currho is of the liver and external causes of obstruction. In cases of ail ulius the flow is usually intermittent and shows a variation from day to day whereas in currhos and other forms of obstruction it is constant and exhibits extremely slight variation from day to day.

Bloom W The Rôle of the Lymphatic in the Ab sorption of B 1 P gment f om th L r in E ly Ob tructive Jaund ce Bill J h s Hopki H p B h 9 3 vs. 3 6

The que toon of the ort in of jaundice is applarent by unsettled. In a review of the hierature Bloom found that according to the belief of some writers the damming back of bile in bilary obstruction i as ocasted with dilatat on and rupture of the bile capillaries. There is a difference of opinion also as to i hether ab orption takes place by way of the blood or the lymph stream.

In e periments performed on dogs in an attempt to solve the first of the e problems the livers were fixed with formalin and Zenker's solution stained by Eppinger's method and carefully examined. In no case was rupture of a ble capillary foun!

To determine whether absorption takes place by w v of the blood or the lymph st e m the kidney of the dogs were removed pr or to the experiments n order to p event the escape of bile p gment by urmary excretion Prel mi ary work had proved that simple nephrectomy does not cause bili rubinæmia. In another se ies of e periments v th the gall bl dder and the kidneys removed it was found that \ n den Bergh's indirect test for bili rubin became pos ti e in the blood serum appro i mately two hours fter ligation of the common duct In a final series of experiments in which in addition to the conditio s of the p vious e periments th entire lymph stream of the tho acic duct was collected the reactio to the indirect \an den Bergh test was posit we in the lymph when the blood serum w s still p gment free and the blood serum remai ed pioment free up to the time the dogs vere killed-from three to five and one half hours In a d scussion of the Van den Bergh test Bloom

calls attention to the fact that while the indirect react on w sposit we in the sept immust reported the direct react on was always neg tire. In the direct tests Ethich's druor engent was added to simple blood serum and in the indirect tests. The summer of the serum that the serum is the serum that the serum is the serum that the serum is th

I M HAY M D

Silhol J Tumor of the Li er Resection Recovery. Histologic Exam nations (Tumeur du f ré s t gué ison e amens histoloriques) B il t tên So de el d P 9 3 dix 33

A woman a od 7 years suffered for seven months with epg istric tenderness lo so diappetite nauser and occasional womating For five month there had been an enlargement of the left upper abdomen which did not increase in size A dry pleurisy had been present for four years There was no history of sphili or mu carriage. The scars of cervical and supractavicular adentits of childhood crefound Complaint was made of slight general tithing

Examination revealed in the left hypochoodrum a hard movable somewhat tender tumor which was the size of an oran,e and seemed continuous with the left lobe of the liver The liver wa en larged two finger breadths don nward. The spleam was pulpable as di introl, separate from the mass X-ray study revealed no involvement of the stomach the introlermal reaction was possible. The utine contained albumna uroblin and traces of bile The perc of the right lung was somewhat impurised.

At operation through an upper midline incision an orange size nodular tumor was found occupying the convex and inferior surfaces of the left lobe of the hier. The nodules were a pale yellov and of firm consistency. The bepart c extremity of tumor was marrowed into at orn it thius? Through this an ampulstion was performed. Hiermorphage must The omentum was fixed without suture again the line of hier closure. There were no adhes one or assettes. The pattent recovered hes one or assettes. The pattent recovered in the pattent recovered in the control of the c

The h tologic diagnosis was disputed. The report of one patholo 1 t was. Tuberculo is 1 th p 0 ressive and very extensive ca exition and per perspery of the easeous some lympho conjunctive rereaction and g ant cell. Another claimed that the growth showed the structure of a subacute caseous inflammation due to tuberculosis or syph his. No tubercle becall: out il be demonstrated.

The diagnosis of sclero gummatous licer was basel upon these findin s (t) a bustre acid ophilia leucocytic d bris and vigue fibrinoid struct in and (2) the presence of numerous plasmato cytes field either the properties of the properties of the properties of the color of the properties of the color of the properties of the properties

tumor was tuberculous or syphilitic

Walter C Burket M D

Alvar z W C Mey r K F Rusk G Y Taylo F B and Easton I Present Day Problems in R ga d to Gall Bladder Infect ons J Am M 1 923 lxxn 974

The author urge earl er recognition and opera tive treatment of cholecystiti. This condition they characterize as a disease which begins in youth but is fr t r cogniz d and properly treated i of l age. In a study of sixty cas s they found that the average durat on 1 s improms v as nineteen years. Farly d gno is v based on a history of pain and

Farth of goo is a based on a history of pain and sign of ree's perstall such a vomiting sick headache betching blooming lassitude constitution and backgrifted Cole occurs in about 200 mone, ign and his colorio coccurs in about 200 mone, ign and his colorio coccurs in work of the colorio coccurs of the coccurs of the colorio coccurs of the coccurs of th

At operation 0.4 per cent of the authors cases showed definite gro s pathology in the others the gall bladder vas removed on the strength of the histor. Thirty is of the th twiseven more ques tonable gill bladdes subjected to section sho eddefinite pathology. Cultures revealed infection of the vil in of sper cent and of the ble in 29 per

cent 3 per cent w e sterile

The ope attive mortal ty was 17 per cent S ven t en of the patients a e p fectly well eighteen a e much bette eleven are somewh t better and three hav not been benefited by the op ration M L M on M D

Lemierre and Lév sque Ind pendent Bil ary Retention During Con ale cence from an Icterus of Spurochatal Origin Normal P generatory Cholemit and Simultaneous Choluria (Ret t b bixed ép datin in control du postetos ting himilianous) cholura (Ret du postetos ting himilianous) con it holdier multa () Bil i mémo S met d'hapé P 9 3 2 2

Examination of the u ine is n t sufficient to es t blish an ind p ndent cterus since in cases of high p gmentary cholemia the urine may contain bile s Its but no bil pigment. The uthors r port a case of normal pigm nears ch lamia with elim nation of b le salts in the ine as shown by the Hay test. The p tient as a 50-year old man who had a spiro chartal icteru nd during exacerbation in the ur ne large amounts of prob lin without true bil ary p gment The H v test v as p sitive Later when the stools we e clay colored bil rub nappe ed in the urine and urobilin was pres nt only in trac s the Hay to t rema ning posit e Two months I t r the blood showed a p gmentary cholæmia of 1 30 000 Soon the Hay test became negati e Pruntis was present as long s the H y te t was positive KELLO G SPEED M D

Dahl I ersen E and Schierbe k N J Congenit 1
At e ia and St no i of the Bile Ducts (U ber
g bo n Atres und 5t ose d G lien ere)
B bl ! f Log 9 3 5

The literature tod te report 137 case of co ge it l atresia and st nosis of the bile ducts. Of these 120 (not ding the authors fi e ases) fall 1 to s cn categors (1) absence or obliteration of all the tearthepast hiele duts (2) entire or part his absence or obliteration of the choledochia (3) obliteration of the upper end of the cysts duts (4) ab ence or obliteration of the hepatic duts (4) ab ence or obliteration of the hepatic duts (5) multiple triess of the evit hepatic be passes (6) atress of the cyst cut with or without in classon of the end bladder and (7) stenoss of the

ettahepute bile passages
In eighteen of the cases an inflammatory process
was found to be the cause of the occlusion in the Its others the condition was regarded as a congential anomaly. With regard to the cause of such
momalies the authors favor the theory of won
M yenburg which is supported by the embratopical observations of Lewis Von Myes burg on
tends that in the anlage the primit we hie passags
are interrupted and become I haded up with the

general system only secondarily

In the authors, two cases the diagnosis was to

firmed at auton v

The s gas are acterus achol c faces the presence of ble pigment in the tune mencation attorphy restlessness or stupo and cating cholenic 160 action a harmorrhagic dataless musculti spasms and 6 ally convulsions and coma The temperature treams norm all or is submorring! In the majority of the cases the urine contains no urobilin or upon longen Trequently furuncles abace so brothopneumonia and uncontrollable harmorrhage are contributor, causes of death

In the differential diagnosis actering a since natorium is di tinguished by the presence of pignent in the stools and urine independent of pignent of the septic forms of acterius are characterized by feet and the other signs of a firm tion. Subchronic hep titls occasionally cannot be differentiated.

The only form of the tm nt is surgical operat on Hepatostomy and chot good-net estomy he ved to been attempted. The chances for success are vent sight as the subject is ally a weak attented that it rationy and opsteme stop to the cases of the control of the cases. The control of the cases o

H gg rd W D Th Diagnosi nd Managem nt of Ston s in the C mmon Duct J Am W

Haggard nalyzes a c ses of 273 operations o the gall bladder and b le ducts. In 6 2 per cent f the cases the e were common duct stones. In a total of fifty cases t eated s g calls for stones the common b le duct the mortality was roper cent. The average are of the patient, was 52 y 375

A history of typho d fever was given in 36 per cent of the ca es while an additional 18 per cent w 1 treated fo so-called typhoid in larn All f the w men had borne child en or had had a typhoid in fection. The ave age durat on of symptoms was 14 8 Vea s.

Characteristic gall stone colic was present in 90 per cent of the ca es In 8 per cent the condition was ushered in by gastric di tress All of the patients compluined of pain in the upper right quadrant of the ab lomen at some time during the attacks The pain radiated to the buck in 45 per cent to the shoulder in 64 per cent and to the chest in 53 per cent In 90 7 per cent of the cases hy podermic in section of morphine were necessary

Chills were present in 81 1 per cent Many of the patients had received treatment for malaria without

rel ef

Jaundice occurred in 90 per cent varying in de gree duration and inten ity Half of these patients complained of ind gestion but een attacks. About two-third of all of them suffered loss of weight and

At operation the common duct was usually found dilated Occasionally the dilatation was marked and the duct solidly plugged with calculi A contracted gall bladder with or without cal ult as found in about 70 per cent of the ca es In a few instances the common duct contained white bile due to pro longed obstruction with bile stagnation and exces ive

muco d secretion

Intolerance of the gall bladder may start the stone n motion toward the common duct. If the stone i arreste l in the duct at the ami ulla or h gher up so that it obstructs the bile flo character tie fever col c and saundice ensue. The advent of secondary infection necessarily d termines the severity of the condition

D tents n of the gall bladder follows pressure on the duct from without as in carcinoma of the head of the pane ea or stricture of the common duct

The pain of common duct stone is often dull and coli ky in type spismod c and accompanied by 1go or chills and rapid elevation of the t imper ture which often reache 104 or 105 d grees F and then suddenly drops to subnormal. The febr le reaction has been termed the nele of cholang ic infection The varying degree of jaundice 1 char cte istic of chronic ob truct on of the common du t The stool are first gray and th n l own while the urine | bile t nged Calculus obstruction i practically al avs as crated with pa n

In ob truction of the d ct due to can e pain i u ually absent The jau dice is persi tent and be comes incr asingly evere As a rule catar h l jaundice runs its course in vor eight eks
Cases of obstruct on of the common duct are late

neglected ca es of gall ston d sea e The mortality is about ten times greater than that due to stones in the gall bi dd r Commo luct b truct on parall l ob t uction of the urinary blad! du to prostat c hypertrophy in that if it i per i tent it ll eventu ally imp ir the f nction of an important og a It

s best to d a two tage operat on esp ci lly in the as s of jaund ced dehydrated patients Simple drainage of the gall bladder o duct abo e the obstructi n follo ed by secondary emo al of the calculus 1 the procedure f choice Th marked

tendency of the jaundiced patient to bleed after operation 1 perhaps best controlled by preliminary transfusion of a hole blood and the daily intravenous administration of 5 to 10 c cm of 1 to per cent solu tion of calcium chloride as recommended by Walters JOHN W NUZUM M D

McArthur L. L. Rena r of the Common Bile Duct le Sirg galx 1 0

Stricture or los of continuity of the common bile duct due to di ease accident or neoplasm is one of the most distressing complications in bile tract surgers and is occurring more frequently as a sequel to former surgical invasions of the bile tract

review of the literature shows that many methods have been suggested for the relief of this condition but the final results have been more or less unsatisfactors. The missing portion of the duct has been reconstructed from flaps of all three lavers of the bowel and stomach from portions of the gail bladder and experimentally from fascial t ansplants

The earliest recorded attempt to reconstruct the ommon duct over a tube was made by Jenckel in The patient was d scharged as cure I but a duodenal fistula developed when the tube was re

In 1007 the author operated upon a case of chronic common duct obstruction due to calculi and scar ti sue and passed a small catheter down the duct vell into the duo lenum Ultimate recovery vas uneventful although the patient was re-operated upon nin month later be ause of a stricture about the site of the fo mer overing

The T shaped tub recommended by Sullivan in 1909 has the disad antage that eventually it must be emoved and this has often resulted in tearing the tube or injuring the duct so that the

original injury was reproduced

The author's method consists in passing the catheter into the duodenum for a distance of 6 to 8 n By the constant duodenal and jejunal tug upon the catheter it will ultimately be drawn into the intestine and h charged per rectum. In a series of eight cases the shortest time of discharge was t enty seven days and the longest sixty three days If the surgeon desires the tube to remain in place longer this can be read by assured by tying a waxed silk I gatu e to the catheter bringing it out through the interval between the ends of the duct being repaired and carrying it through a small rubber tube reach ng from the duct to the surface of the body When the tube is to be cast off this thread is cut at the surface. Thus the tube may be removed s sthout a secondary interference. If it is impossible to find the distal end of the duct the catheter may be inserted through an opening in the duodenum and held there by a pursestring suture but this of course carries with it the potent al danger of an ascending cholangiti In the author's cases there was little tendency to leak bile even though a hermetic suture was not attempted

Mariah off theuhlast si terium olt i frum fage; linth lilityra lericar bere-gureltitum the lin within lithis i to the skiphralwa cut the off tolt blim that the ps lint k nith fat riten an

une enti-1 Il art li ntil with a reg et fisc n per til i es fulls tit the meth Lef if it desiled (T Crate MD

Micjuit I ad Control I H (intuine of the Ia e a Halso Fraum ticks title t [Linear mit pa

tad 4 His floctron to the lither men and fletting pper to the lays to several exadition of the process for the process and the though the process and th

al rec

Chius lel to the pertage there but the latter of min at least from the rube at a let to the number of per t perform i for y well tea lagrater ir ritripart n liberan r amay be riu i la il inth in trium and the literapi c prion to the cell was giner by the jump r t ven less pe j ry Of th tas assecil till the intrin the littuette majints wir the of orgin l

Widney med racid vt lu t inj f th li I permitting the pin to wound i tentitled wer Mixon to el Contact that the at a timer 111 ł n

He t intirit stpititlisdan! piner ti j Oc ell it jite en atl clear I nrati frm nt such ar nte alle fund in these if ting I the because the

Hese poe l c t las n pr per s lib t th ir ntent i lm t lbs night rig rg r nlts ai h sons Th tre t ent s u tin feh t ila t losue ith p. Ih uulara in which uh at i nar betwenth at anhanithe le I twen the 1 mah I th I er behind th t mach I to en the f H of the tran erse mes> cin and nth postriftinal will ag nt

the vitte le lun n The supe it nears pent the pest nel casty less at cau r of ft os le the is an ocat les pe fill or hod n lee tin the in r t s retin a not dg tive ules its ti tells fibes jes Inlem reh , and | | attepin re tit thet n'e tic fer ent i et t ll il le the duod n ljuice

r t ctera In c es in vlich the inj ry is infinel to the j n er three abites f ellwu ally s the eng trium fil elly gun ni miting the emitus cea n lla being bla ! The paniocate! in the right trum is u ual! I li che racter The t be an I temper ter are normal Of eres es int star in the I now at the panear mar m the er ga trium and fint' ty t papate der Death re alta if creerat n is n t performed 1. far tile e Inalet a occurs a damen O t fr elsen

When the carcreate co to co is an easted th ceral or a scul r l 10 a the symptoms a c the of sise ral a jury and a ternal hamorrhage a lith

f en w can be mad only at operation

for I teru ture of the panere a athtea a of the fact i selace I lowed by reco of If thet w tu es framplet the esc pe of pancratic secrit in with th I rmst on clayer 1 gst

he fars ham trhag is a very limitation s cett ef paner at e ruy ture a d ma per rent

lenly a late as the hth day

The room one of men locust are to circul the amen the fronts noftheps c asbut and h less se re I la i gatlow in th ig tr m three lect jun wh h wear nully i as et les with a mil infline of a rail usires to the book to the cells | sut Thor ces m t mens all the amount are very fix Aft rational a with the rir sym t re persit or gr 11 1 tagge a sa Ing i n ted in the e g tr-Ih sin as ppe rit enseveral lasstoseveralm if fret th 1 ju + In a case reported by Crafit 5

The turn to a walls more in the left thin to r hi s i of the erir tham i me shaped a d well cir um tiled but somet me it is i sente d fr mit la e re nar le it ief ctuati ga idal f percu ion There i Ittl or non t n with de respiration Touth eithe stomach relining tin is usu il nece ry k untger graph wi

utline the [1 ra n1 fanhragin Whintle st confer weath night engorgars. him wees it bre juentli there i bonzeg th ski D betert re compleatin With ut

perati the allas ni indeath

Rescor Less M.D.

Wrippt A O Pancreatic Asthenia 4 5 f 0 3 1 11 1 In ser fajo e nercuti neelected ca es el

I ex es of the I harv tra t and no creas operated upon ly the thor per latt ton was given to th p th l go symptoms mil to an i results a ristelt th p n reas Of these 230 cases fort h I I finit pin rest less n Fighteen I th terme | p n e tic asth na and regarts a an

e tits Tan re to this i hret ri bie treme asthe anor pilv naue and omitigamirkel irop n the lix i gres re nia rap lix of weight. In som of Whipple on es ther has been a tendency to hamorrhage with and without jaundice or bihary fistula ptyali m pain and tendernes over the pancreas obstitution and darrhæa

In seventeen of the series of eighteen cases re ported d finite pathology of the pancreas as found

other at operation or autop 3

The asthenia anorevia los blood pressure and loss of weight are not dependent upon malignancy masmuch a to elve of the eighteen cases showed pan creatitis rather than carcinoma

The involvement of the pancreas increases to a marked degree the hazard of bihary surgery

The inflammatory lesion and calculus formation limited to the gall bladder should be treated surgi cally before the process of inflammation extend to the pancreas TMILC RO HISLER M D

Smith C E and Rusk G \ Endothel om of the Spleen A Study of Two Cases with a Re vi w of the Literature of Prim ry Malignancs of the Spleen 4 h S g 19 3 11 371 In the spleen there are three types of tissue from

hich neoplasms mas ari e (1) the capsular and trabecular framework from which fibroma and fibrosarcoma may develop (2) the lymphoid ele ments from a high either a simple lymphoma (lym phadenoma) or a malignant lymphoblastoma (lym phosarcoma) may develop and vascular or sinus endothelium from which and omata and their malig nant counterp to the endothel omata may are e I group of hyperplasias ove their origin to the pulp and in particular to the endothelial cells I ming the sinuses Simple hyperplasia of these elements is found in many conditions. One of the most interest

ing is the hipe plasis des gnated as Gaucher's dis ea e which borders closely on the group of true neoplasms The most common benign tumors of the spleen

are the fibrom to lymphangiomata cavernous an g amata several of which show transition from the benign to the malignant type Is mphadenomata due to hyperplasia of the malp ghian corpuscles with or without encapsulation several types of large cell hyperplasias endothel al cell masses some of which esemble or merge into neoplasms and a large cell hyperplasia resembling Gaucher's diease caused by the ingestion of large amounts of chol ster n

Three types of cysts occur in the spleen

1 Hæmorrhagic cysts hich arise from degener ated areas in the pulp or in angiomatous areas and later become se ous. Trauma with subcapsular hamorrhage and the format on of hamatomata is probably an important factor. The casts usually c ntain cholesterin

2 Dermoid cysts

Parasiti ests due to cysticercus cellulosæ p ntastoma denti ulatum nd the echinococcus The authors eview most of the 104 reported cases of mal gnant disease of the spleen and report two cases of primary endoth I oma of the spleen arising

from the endothelial cell of the sinuses which they believe is not an unusual type of splenic tumor The mest common type of tumor i probably the lym pho arcoma. The a usually part of a generalized proce s app aring at the same time or later in other lymphoid tissues of the body. Neoplasms of the splern should be amenable to surgical treatment Therefore in cases in which they are suspected an exploratory Inparotomy is justifiable

MORRIS H LARY MD.

MISCELLANEOUS

Copenhaver N H Intra Abdominal Herniæ 1 h S g 023 V 1 332

Intra abdominal hernix are rire but are import ant from a surgical standpoint. They usually do not give warring of their presence until acute symptoms of intestinal obstruction have developed and a differ ential diagnosis is impossible. Extensive or prolonged operation is contra indicated as the saving of time is important

The abdominal fossæ may be divided into three grouns those formed around the duodenum those around the carcum and those around the sermond The location of abdominal herrier is confined to the corresponding areas the duodenal the caecal the foramen of Winslow and the sigmoidal areas

Herniæ in the duodenal area the most common type may be divided into two chief varieties the right duodenal and the left duodenal. Although nine paraduodenal fossæ are mentioned by Moynihan only two are of surgical importance, the mesenterico parietal from which the right duodenal hernix arise and the paraduodenal from which the left duodenal hermæ take their origin. In operating on duodenal hernize care must be taken not to injure the superior mesenteric artery and vein and the inferior vein One hundred and one cases of paraduodenal hernia are reported in the literature. Five have been observed in the Mayo Clinic

Pericacal hernia are not as common as duodenal hernize Only one case has been observed at the Mayo Clinic a posterior pericacal hernia with trans position of the cocum which was operated upon

Intersigmoidal hernix are the rarest of all types Only nine cases have been reported in the literature and none has been observed at the Mayo Chinic

Hermæ through the foramen of Winslo's depend on four congental anomalies a common mesentery for the whole intestine absence of the secondary fusion of the ascending colon to the posterior abdominal wall abnormally large size of the foramen and abnormal length of the mesenters vith undue mob lity of the intestine

Twenty three cases of herma through the foramen of Winslow have been reported. The case observed at the Mayo Chine vas that of a woman 56 years of age who came for examination because of an attack of acute right epigastric pain nausea and vomiting A d agnosis of acute intestinal obstruction was made and an enterostomy performed a catheter being placed in the first presenting loop of disten led small bo et Th execum and ascending colon with a long free mes nto v which had beeniated through the foramen of Winslow into the les er peritoneal cavity and ruptured through the anterior leaf of the omen tum wa hanging I n in fr nt of the stomach The loop was d rk in color an l d stended to four or file times the normal use A culle also inserted and g withdr wn reduction of the berma wa then possible \ catheter as inserted at the point he th n ell entered Follo ing the reduction of the hand the color of the lowel improved and in th f t tyelve hour there w s very free dray age i m the catheter Suddenly hovever the dra nage cer el the abdomen b came distend I and the nationt grew w se and ded Autopsy revealed that the cause of the sud len stoppage of the drainage and the terminal factor in the p tient's death was a defi nite volvulus of the crecum and di tal portion of the

There are to types of diaphragm tic herms the cong nit I and the acquired. The acquire I type should I av be I oked for follo ing any accident

of a rushing nature

C ngenit I hernix occur usually through the I ft p t of the diaphr gm as the sil 1 3 aker than the right b cau e I the openings of the aorta infer for ve a cavi and or ophagus. On the right il

the liter's ruc as a shield.

The sympt m in acut cases f disphragmatic hernia ar d spiner ith s vere pun in the upper abdomen in I the left a d of the chest Symptom of intestinal ob tructs n re often 1 ent di gnosis of diaphragmatic hernia is made po-ible by the roentg n . However the differentiation of a true herma and elev t n of the draphragm s often d flicult Balfour I as given the e important reentge logical netic ti ns of h rms (1) destruc tion of the d fi te dom shape a hich is characteri tic of the ormal I ne of th duphragm (2) the app r ance of the lung t su through the gas lubble in the left chest and (3) the demon tr t on of bismuth in the col n above th 1 v lof the bo In in the chest

In operating n a 1 phragm tic hern difficult to ke p the at lominal vi ce a from b ing s ck d back into the the the during the closure of

the opening

Of eight diaphr gm tic hern e f und at op rat on and report d by the uthor o ly nevs nafem le five were c ng nital nd thr e e traum t c s en vere on the lift sile nd one wa on the right sile The h ma on the ri ht sd of the co gen tal

Numerou 1 olat de es of he nia thr ugh an ab dominal op n ng ha been repo ted Su h h rnie my occ ranywhere in the ab lom 1 cavity L ke diaphragm to h næ thy are u ually caused by injury nd may follo accid nt facru h g natur an abdominal und or pe sistent severe str ning in comiting. They relate common and are for the most part read ly amenable to surgi al treat ment

Hermin anto the lesser p ratoneal cavity through a tear in the lesser omentum the gastrocolic omentum the great omentum or the transverse mesocol n have been reported. The author collicted thate four such cases from the I terature and has reported one from the Mayo Cl nic

Considerable d ff culty is e countered in the re duction of the strangulated hernia into the laser peritoneal ca aty. The close proximity of important tructures to the foramen of Wanslov makes enlarge

ment of the orange extr mely hazardous.

Hernix often occur through a slit in the mese terr of the large and small boy I or the great omentum I estoperate e intra ab lominal hernix m y b d ided into two groups (1) those occurring through an abdominal one ng made luring operation and (2) the e into p uches or openings formed by their testinal canal following an operation. The first t pe is not as important from a practical st adpoint as the second Since the adoption of the posten t m the l of gastro-enterestomy hernix through the mesent in of the transverse mesoc lo are rare ye the danger of intern I he nix following gastroenter tomy is not entirely remo ed. In a unique case of herma follo ing a left rectus col stomy hi h s as reported by Mayo and Macoun the entire small bowel had pas ed between the loop of sigmoid form ing the colostomy and the left abdominal wall Y H COPE TH

Straus D C. Subphrenic Abscess S & Cl 1 1923 1 0 3

In the case of a 72 year-old man a subph enc ab c s suddenly develop I three months after an op ration for ruf ture of the appendix and a swell ng appeared in the right upper q adrant of the abd men ju t below the costal margin. The liver dulln ss con tinued upward The \riv showed the right da phragm to be high esp cially on outer side with costodiaphr gmatic angle of 90 degrees and 1 to slight mobility

Under general anæsthe ia an anter orly pointing abscess in the ab lominal wall which was n t con n cted with the liaphragmatic abscess was op n a d drained The operation was then disc nt n ed as the patient did not stan I the anæsth tie well Four days later under pa av rtebral an estheus

the daphragmate abs es vas drain d through vide i ci on Subperiosteal resect on of th m th nd tenth r bs was done and the ab cess ca 11) I a ne I an I irr gated with tende normal salt solu ts n until cl ar flu d returned Two large drain ge tubes ere sutured in and after twenty four hours t o Dakin tubes were insert d. The operation wer done Febru ry 28 and March 24 and the patient

wa discharged to 117 The paravertebral anaesth tic was gi en by th method of Pauchet Sourdat and Lab t W th the pat ent on h side the ski was an estheti ed on lin parallel with and 4 cm from the tips of th sp n ous proces es Deep injections w re th n made into the spinal n rves f om the eighth dorsal to the first lumbar. The needle was introduced without the syringe attached to avoid possible injection into the spinal canallor a Hood vessel. Five to 6 ccm of a 1 per cent howocame a frenalm solution were injected into each nerve, this resulting in complete anosthesia, a within 1 in of the anterior me lian.

The patr at stoo! the secon! operation well at re-

Muscus II II sa r MD

Morri on J. M. Fie ation of the Disphragm Unilateral Phrenic Paralysis. A Radiological Study with Special Reference to it e Differential Diagnosis. 1. h. Rad. 1. F. I. J. tolk. rapy. 923.

XXX1 353 X 1 72 11

He vation of the diaphragin may 1 permanent or temporary Terminent elevation may be either on genital or required and lend those who may cau e elevation of the hiphragin are sulphrenic abscess hydrithey to to the hyr lung lisense and certain gratific disease.

letit wl first differentiated e entratio dia thragmata a from the common diathragmatic hernis reported two cases in 10th the hernis was in the left sile. Letit sugge ted that the right leaf of the haphragma i protected by the convex hier virtue.

urtice

The term eventratio diaphragmatica should be restricted to ce of conjential diffus relaxit in of one half of the dayhragm causing it to extend upward into theil for it of term a ce. This sac ontains a portion of the stomach and at times the colon and messitient in pipinger in 1312 reported the one cas of hermatic in on the right also.

Rentgenological examination make possible in exact 1 gn i. The record examination shows

the devated disphragm extending into the chest often as high as the hird the and forming a done which encloses an air space. At the bottom of the air space the is often a free fluid line on which vaves may be produced by palpation of the abdomen. The level of this line is thin vis that of the cardiac orifice. The upper boundary of the domes formed by the thinned bott disphragm. The stomach presents two sacs the upper of which julls into the kyee.

The author gives a brief r port of six cases. The patients ages ranged from 12 to 54 years. The clinical diagnost prior to \tay camination was pidore of struction duo lenal ulcer or ulcer with

p rioration
\(\) Common complicates n of elevation of the dia
phragm is undisteral phrene e parthy 1 due to a
let nite lesson of the phraine nerve. The suthor has
een nine such cases in the past to oceans. In two
the right and in seven the left phrene nerve was
inselved. In one cae a meta taite cancer nodule
which modeled the phrene nerve as it crossed the
root of the fit lung return of complete nerve degeneral
of ments of the diaphragm. In three fit he can
there is via secondary critical in the control of the
in the control of the diaphragm. In the control
in the control of the diaphragm in the diaphragm
in the control of the diaphragm in the diaphragm
in the control of the diaphragm in the diaphragm
in the control of the diaphragm in the diaphragm
in the control of the diaphragm in the diaphragm
in the control of the diaphragm in the control
in the control of the diaphragm in the control
in the control of the diaphragm in the control
in the control of the diaphragm in the control
in the control of the control of the control
in the control of the control of the control
in the control of the control of the control
in the contro

and in one with aneuri m of the arch of the aorta.

The rountgen signs of garaly it of the left phrenic nervous are the same as those of eventration of the

disphragm liffering only in degree

In conclusi n the author stries that eventration of the haj hragm man be jue to a developmental lefter in the mu cular leaflets of the diaphragm or a unil steral phrenic j aralysis due to injury or disen e

J BN W NCZ M M D

GYNECOLOGY

UTERUS

Le euf J and God d II The Lymph tics of the Ut rus (Ie lymph tiqu de lutérus) Rev

The authors studied the lymphatics of the uterus in order to devise a rat nal technique for operation in c ses f ute imemiligancy. Yout 150 newborn and two adult females vere injucted with Pru sian blue in a turpentine su pension

The lymphatics of the body and cervix of the uterus and the upper third of the vag na have a common course with the authors designate as the principal than the first accessory and anastomotic by others coll teral accessory and anastomotic

The lymphatics of the cervix and the lody of the ut rus con erge at a por t at the edge of the uterus imme liately bo e the vaginal insertion bundle of collectors at first follors the ute ne ar t rv passing before the urcter toward the external wall of the basin At the junctu e of the inner two third and the outer third of the broad ligament the lymphatic t unks leave the artery pasing on the outside a little forvard. They then cross the umbilical artery and empty into a gland called the principal gland the location of which is very constant. The efferent vessels of this gland surround the external ili c vessel and extend upward outs de of the il vessels just at the edge of the large pre ertel r ! essels (aorta to the left and infe or vena cava to the right) In its entire extent the lymphat chain occupie an external par ascular position The chains of both sides surround the large ve sel and unite in a median line in a common retrovascular trunk which ends in the c stern of Pecquet

The collateral chann is of the cer ix are two the posterior and the ret o wreteral. One forms the hypogast ic network with lymphatics about the u eter and empt es into one of the glands situated at inte v is in the branching of the hypoga t i artery. From there the effective seeks po toward the promonitory along the internal border of the common if u e seeks

The other ch nnel is situated med al to the frmer and follows the superior border of the sympathet c bypogastric trunk until it re ches the vicinity of the pomontory where it enter gland attached to the mmon left is community in the state of the sympathetic of

The effe entive desum te mith the efferent we sel of the first collateral ch n el to f rm on common channel which follow the nit rnal border of the mmon if a essels and may be called the nternal pa a sacular cur ent. Who e th promontory the coll ctors go to the out ide along the lic wes 1 and empty, into the principal cuent

The two currents—princial and access nunite at times by anastomotic channels which are very constant in type

In the body of the uterus the ute o-ova an chan nel leave the uterine cornus and folios is the utero ovarian and folios is the uterine cornus and folios is the utero ovarian vessels in the broad I gament and the hist for a ''t the inferior pole of the kidney the electors turn in ard follow the ureter and d seed branching to empty, into a gland ituated be for the large prevertebral vessels. The effectnet vest from the gland surround the norta and from behado poin the principal channel before it emptt is in the extern of Peconet.

The conclusion dra n fr m these findings are that at operation the glands should be remo decompletely and that if irradiation is employed it should be directed to the principal lymph tichains into which the lymphatics of the boly and the cervix of the uterias empty.

SALVATORE DE PALMA M.D.

Cra es W P The Olshau en Operati n for S spension of the Uterus Am J Obi & Gyn

923 3 137

The author has performed the Olshau en operation is a times. In go a per cent of the cases that according to the correction of g neral p olyage. The other cases include in the order of frequency smpl retroversion antell ion with retr cession plute a flammatin outerine fibro do sow a int tunor and xira utern pregn nev. Of the 137 case, follow up ext mination is were made in 740 at periodoranging from to months to about eight vears after the operation.

In six of the recorded ca es the art fical attack ment failed to hold. Of the east fultures two o curred in cases in which the cer real stump had been suspended for severe procidents a three followed childbearing and one follo ed suspension for simple retroe enson in a pitent who had had a presum that the processing the supplements softening.

rec en e (te und i gament shortening in fifte not the 370 asea one of the 31k stitch 8 lecame infected and in 140 of these the removal of 15 titch was necessar. In the rema a nease the wound healed or the stitch was di charged spontane usly. In 0 e s am lhern w ked its a through the it of the lik lig ture on ne s de of the wound.

There e n kno n s of test n l obstruct n or dy toct follo ing the oper ti n

There were four deaths ne from pulmonary embolism nac se of pod nti ne from cer bral emb lism na of pr lapse with a ht no docarditis one from probable pe tont in acaft tubercul us salp ng ti and ne from a typ i al streptococ spritomits. In the last cas mentioned

the diagnosis was made when the abdomen was opened on the suspicion of intestinal obstruction. The patient died soon after the second operation. Thus it will be seen that none of the deaths could be attributed specifically to the Olshausen operation.

The author draws the following conclusions r The Olshausen operation 1 the simplest and

The Oishausen operation 1 the simplest amost rapidly performed of all the operations now in use for reposition of the uterus. In the permanence of its results it is the equal of any and is superior to many of the other procedures.

2 Its simplicity makes anatomical dissections and injury of the surrounding tissues unnecessary 3. In cases of prolapse it permanently reduces the descensus of the uteru and effectively relieves the symptom of pelvic pressure. It may be applied to

any condition of prolapse however severe

4 When performed in the presence of a cystocele

it is the chief factor in curing the cystocele
5 The danger of intestinal obstruction and

dystocia is slight

6 The one serious dra back of the operation i
the silk ligature necessary for its proper execution

EDWARD I. CONNELL M.D.

Fabre S The Results in a Series of Uterine Fib o mata Treated with Radium (Résultats du e séned fib mesuterin traités p rls curie thérap e) B Il Soc d b i et de gynée de P 1923 xm 69

Fabre reports the results in sevent; eight cases of fittoma causing hemotrhage which were treated with radium. Fifty six vere treated prior to 193 Some of the tumors were large but the majority were of medium size or small as judged by the length of the uterine cavity. The immediate results of the treatment were always satisfactory. There was no pain and no pertoneal or adment reaction. In seven cases the temperature was between 37 8 and 38 4 degrees C.

In twenty three of twenty eight cases of small fibromata an immediate and definite menopause resulted. In two the menopaus d d not occur until after about sex months: In one case on account of the small dose of radium used there is a smenorthea for six months followed by the return of menstrus too. In two cases the harmorthage was not checked

In forty seven of the fifty cases of large and me dum sized fibromata the results were satisfactory. In the three in which the treatment failed operation disclosed adnestic cystic ovaries or intra uterine polyps. These complications the author be heves are contra indications to rad otherapy. Very little is said regard age the reduction of the size of the timors.

Cavella A J Tuberculo i of the Ce viz of the Uterus (F b ul d l cu il del úter) B l d l Soc de b t y g d B t 9 3 ti 19

Caviglia refers to a case of tuberculosis of the uterine cervix recently reported by Bottaro and Paulovsky and reports a similar case observed by himself in 1910. His own case was that of a norman

25 years of age. The diagnosis va tuberculosis of the genital organs associated with a tuberculous abscess of the hip. Hysterectomy with the removal of cystic adness was followed by recovery

The micro copic findings in the uterus and adnexa are described in detail. The infection in the hip had been present for nine years. In Cavighas opinion the cervical involvement was secondary to a lession in one of the fallopian tubes. WA BENNAN

Fau e J L The Treatment of Cancer of the Cervix of the Uterus (Tratement du canc r du col d lutérus) P s méd Par 19 3 xxv1 461

Of fifty of the author's cases in which radium was employed for the first treatment twenty five were inoperable and the other twenty five were not operated upon because of the patient's advanced age obesity or weakness. Five of these patients are now apparently in good health.

One hundred and two patients were operated upon of these eleven dued soon after the operation and two dued later one of pyelonephritis and the other of progressive exhaustion. Accordingly, there were thirdeen deaths in all a mortality of 12 per cent.

Of the eighty three patients operated upon more than a year ago forty two are curred and forty one have had a recurrence. In six of the latter the re currence developed from four to six years after the operation. Of those who are curred many were operated upon from ten to seven years ago

The author further divides his cases into favor able cases in which the mobility was impuired but not sufficiently to make the case a poor operative risk and unfavorable cases in which the mobility of the uterus was so impaired that there vas doubt whether a complete operation was jossible

In the twenty one favorable cases there were fifteen cures her recurrences and one death. In the thirty five moderately favorable cases there were thenty cures twelve recurrences and three deaths. In the forty unfavorable cases there were six cures twenty five recurrences and nine deaths.

In forty four cases in which the author give radium treatment after operation during the period from 1911 to 1920 a cure resulted in twenty two In the twenty three cases in which radium was not employed there were fourteen cures and nine recurrences.

Faure concludes that radium should be us d in all inoperable cases because it renders his support able gives the patient hope lessens pain and some times effects a cure. It sue is indicated also in the mode ately favorable cases in which there is loud as to whether the condition can be eradicate it by to eration or the surgeon 1 not sure of his all tity to perform a fotal hystercetomy. In surgically interfaces the operation should be performed in the should be performed to the surgeon in the should be performed in the should be performed to the surgeon in the should be performed to the should be s

The article indicates that in favorable cases the author has d scontinued the use of radium

SALVATORE DI PALMA 31 D

Poucy II Surgery and Radium Ti erapy Combined in ti Treatm nt of Cancer of the Uters (Chiru gue et cunethérap mis é ! 1 c c le 1 tér) Gy é le 103 16

In six cases of cancer of the c. rix and o. e of the body of the uter. I hun treat net was g. en le fore hysterectoms v as p fromed. Four ca. s. of cervacil cancer and there of the body recervated is after the operation. In ome of the ca. es a cau, the paste of size, chloride was apply. It to the disease it area in add too it to the radium. The time since the treatment is from to 6 mine, easy. There was no operative mortality. To of the jit ents died to and three vesters after the treatment.

As a recurrence develope I in only two fien cases of cervical cancer the author b leves that a combination of surg ry and radium therap is con i ke ably more effect; e than surg ry alone. The case surgerported in d tail. Survivos rolls is MD.

Don Idson M. and Cantl. R. G. Obs. reation on Fifty Ca. of Carcinom of tl. e Cervix Treated ith Radium. B. t. M. J. 1923

This article deals with the u of 1 6 t mem of radium element in the treatment. I c reinoma of the cervix with a pecial r ference to the local path logical changes an I the chi f cl nical change luring a period of eighte n months. To o platinum tub containing 53 an i 54 mgm of rahum el ment respectively and with a vall thickning of o 5 mm an I thirteen platinum ne Il seach co tuning on n average s a nigm of rad um element an I s ath a wall thickness of o 4 mm wer emplyed I o eries f e ses were observed the first being exposed for eight hours to am unts of radium ranging from 133 to 176 mem and the second for to nto four hours t 1 6 mgm of r d um An alumi um tlter a m ployed for the tubes but the nee il si re use 1 b re The iliac glands were irra liste! according to the

technique of Dael
In the first sense of cises hi tolog of eritions vere made at differ e times ringing from o e to satiy to on each first reason and the reason and reaso

In the seco descriptions to make up to forth since the state irrithing the most option the second state irrithing the most option to the second state irrithing to the second state irrith

after hysterectomy and in fifte n the study was la ed on exceed port ons

In the to lec ses in hich a growth as found after rra hation it was greatly re luced in so he ber g scarcely recognizable. In four it was e am ed after hysterectoms and in eight examination as male on excis It e C lls of serve I imme hately upon remo al of the rall m have I no ch ge from the condition before irra liation. On the third day mitotic figures vere much more numerous and on the fourth day there we few cills which did not she als ormal to f some kin! The abnormal iti s scre al ormal mito s which sas always p cent necrosis high was of the coard tion type an I most marke I in close proximity to the ra hum and an incr a c in the ize of the oth reells. After the se th day mitosis was n t seen. The nuclei

mel to be br \(\) n up at th en lof six weeks the Irraing up to keeme le notice able Large uch i er most numer u immed at ly after irraination "small roun levell i lift toon which was all as i un lat the kr winge fee we spren it up the lift of t

In tl t c se of columnar-cell type growth

a fou I fi e nd n ne we ks fter irra liat on The clinical result in discussed under the heads h morrhage lee at d ch rge and a furation Of mine patients 1 th ght hour eros n t ubjecte ! to by terectom to r living an l n good heath t olive inin m the oclive isitteen maths one I lof ept rma f weksafte the diation nitsod i thinfurm ath afte the beginning of treatment. Hemorrhage c. ed. n f ur of fi e as s in buch it oc urrel The l l rge as di creas i in for ases and I ed up a one cale Ulcerate n w healed in t o nd decreated in t so in o it prite! I luration is difficult to t timate but g ne ally peaking it di in t di ppear in any a though twa usuall fiming h 1 of the patint wer lecitelly be fit I to sightly benefit I four experienced o change a d on dielsh ril ft r tr tmi t

Of the to may fur h of forty o s ats there a ere biect I to hystere tom two of the others w treated too rec the for on trat n Of the r muni g t nty x t t dand fift nar h g fom four t s te n en of th I tt r the m th ftrtreatm t (t atme twis begun m than a ve go) Hæm orrh g lmost an bly yiel i d to th tr atm nt The d chag I appeared l ven in two nd vi n t lm ishel n t l Into esul ration isappe rel Insv the e cha ge Ind ton was g

From the case reported the author draws the following conclusions

r Radium treatment prolongs life and relieves hemorrhage ulceration and di char e

The pr liminary application of ralum in operable cases causes the disappearance of the ulcerating growths

3 The application of 1 63 mgm for tventy four hours is much more efficacious than the multiple

application of the same amount for eight hours
4. The use of 1763 mgm of radium may cau e
the complete d sapp arance of the gro th from the
cervix within a few weeks. A d finite series of

changes can be demonstrated in the cell leading up to its destruction
5 Little or no effect of the radium upon the il c

gland 1 to be noted
6 Retrogressive changes occur in the cells before
the fibrous chan es therefore they are not due to

the fibrou changes
, Care noma cell are more vulnerable to r hum

than the ute 1 e musculature

Janes D & II a D

Perf 1 \ The Treatment of Inoperable Cancer
of the Crux Refo and Since the Use of
Radium 1900 1918 (if teme to n du
li pé bl tid pu limpl dur d m
900 98) R f c d gre tid ti q 3
X 32

Perrola has made a comparative study of asc of inoperable ca cinoma of the cervix treated by pullin tive mea ures and with radium resp ct vely. Of th fir t group compri ing fifty cases thirty p esented a crater with beginning infiltration of the paramet jum a d cul de sac and t venty presente l a caulifio e mas at the o The younge t patient w s at years of age and the old st So The pall at e treatment con sisted in cauterization by various agents-the actual cautery the electric cautery in tric acid silve nitrate tincture of iodine and formol-pre ceded by curettage of the frag le cervical ti uc and followed by 10doform o zeroform tamponade of the vag na Offen ive odor vere mitigated by the appli c tion of pero de vate and a etone Despite a careful tech que f equent complication developed -vaginal burns in two c ses and hæmo rhage im mediate or del yed in 1steen ca es Thi form of treatment resulted a temporary improvement in t venty two ca e but was without benefit in tw nty eight. There was practically no deminution in the se enty of the pain Subsequently fifteen of the patients could not be t aced but because of the nature of the le ons the author entert ins no doubt as to the ult mate outcome In the remain ng thirty five cases the shortest survi al following cauteriza tion was twelve days (death from hemorrhage) and the longest eighteen months (death from cachegia) The aver ge s about eight months
The second group of cases those trated ith

rad um numbered forty six. Of these twenty five presented a cruter vith parametrial infiltration, and

twenty one a cauliflower mass at the os. In the twenty two traced cases with parametral infiltration the shorte t period of survival following the treatment vs. as six months and the longe t five y ars and seven months. The average was twenty eight and one half month. Three of the putents are still living and well five and one half years for the tradiation. In the mietern cases offer the case of the contest period of survival v as three and one half months and the longest four vers and one half months and the longest four vers and one month. The avers e was fourteen months.

The compart on shows a distinct prolongation of life by radium treatment and a cure of three cases in a series of forty sax. In thirteen case there was total appearance of the lesson for twelve months and in nineteen temporary improvement in the discased area. In only cleven cases was there no appreciable improvement. Hamorrhage occurred be teen the annth and sixteenth month after radius toon in only four cases. In the three patients who are and in thirty, three others it decreased the sevents of the pun. In thirteen cases there was no improvement.

Monod M R and Gosset M A The Treatment of Cervico Uterine Cancer by Hysterectomy F Illowing Radium Therapy (Su Let 1 tme t du erce outern pa lhyst ect mec séc t à l ur th pe) B ll 1 5 de h d P g 3 xhr 6 b

In the treatment of cervical cancer the authors apply addum from four to say vices before per forming a histerection. The technique i third Regaud. Three emanation tube are placed in the vaginar and one i introduced into the uterus and left us stuff for four or fix day. The average does so me The apphacators are removed daily for clean ing and at the waginal and utering douche, are given

A high temperature during the cour e of the radium treatment seems to indicate infection of the genital tract. In the two fatal cases reported the tempe ature was 40 degrees C and death was due to infection. In case in which there is a tendency to pyometrium a Mouchotte drain 1 used.

This article reports the results in twenty-eight cases from two to tenty it months after treatment. The majority of the patients were considered poor surgical mass because of the extent of the lesson or because of poor general health. Twenty two were cause of poor general health. Twenty two were made to the contract of the foundation of the poor of the foundation of the poor of the poor

Of the thirty cases irradiated a total hysterectomy was done in twenty serven. In three only an exploratory lapartomy was possible as the iliop like chains of gland were affected. One of the three patients subjected to laparotomy died fifteen

days after the operation the to others are still under radium treatment

In some of these cases the operation is difficult on account of marke! sclerosis caused by the rudium

around the uterus uteters and bladder.

In the twenty seven ca es of hysterectomy, there vere two deaths. The tirenty five other patients are all apparently doing well. Microscopic examination has shown a persistence of cincerous cells in only seven cases. Upon examination the glands.

removed at operation proved negative.

I rom the study of the e cases the authors draw the following conclusions.

The application of ralium renders non operable cases operable

2 It makes it possible to perform an operation

le s stensive than the Wertheim hysterectomy

4 Operation after radium therapy is justified b cause it permits postoperative radium treatment and the removal of organs or chains of gland in

which involvement is suspected

Auvray Rare Forms of Sarcoma of the Uterus (A p post a liques 1 mes rar s du s re m le luterus) B # S c doist 1 d sy & d 1 r 1913

Three unusual cases of sarcoma of the uterus are reported viz (1) a myosarcoms v hich had devel oped exclusively at the exp use of the anterior I p of the cert v (2) an enormous sarcomatous exst im planted in the fundus of the uterus and (3) a sar coma of the body of the uterus associated with an epithelioma of the cervit. In the first case the sarcoma presented at the cervix and had the appear ance of a cervical polyn in the vagina. In the second cas the growth was found at operat on 6 liters of thick chocolate colored liquid vere evacuated from it The third tumo described was found at oper tion on a 30 year old woman for ep thelioma of the cervix. In every instance the sarcomatous nature of the gro th was d mon trated by histologic exam n TO DIP LMA MD

Volle C I ate Hæmorrhage in a Co e of Subtotat Hysterect my (I morr n t d in un c so di ister ct m subtotal) 4 k di od i g 9 3 z 0

The author rejorts a case in which a severe hamorrhage occurr d th ricen days after hist rectomy just as the patient a sobengdischarged from the hospital. A secondary l p otomy reveal d a bleed ng left uterine arter. The was lighted and the patient recovered

After excluding t auma errors 1 surg cal tech inque alterations in the blood vess 1 valls hamo phil: and secondary inf ction the author comes to the conclusion that the hamo h ge was due to a trophic disturbance of the tissues f the cervic l stump due to the lisat on

SAL TO D PALMA M D

Cotte Four Cases of Ur t roraginal Fistula Follow Ing Hysterectomy (Q t c d fi tules urctérov ginales c noctul es a 1 bysterectom) L o ch 1923 vt 35

In one case in which the ureter was accidentify sectioned during a haste ectomy, the author im planted it into the ladd? In three other cases of involvement of the ureter in which this was impossible he performed a homolateral nephrectomy. He bell each tumplant is in is the procedure of choic whencur it is possible. Low I. L. Day J. Will

Gayet Two Case of Uretero Vaginal Fistulæ Following Hysterect my (1) uv a le h tules urêté ognales o «cut resalh stérect me) Ly k

9.3 355

The first case was that of a woman 43 years of age. Hysterectomy was followed by phlebitis which persisted for two months and by the development of a ur tero vaginal fistula Urine passed by both the urethra an I the vagina Permang nate solution injected into the Hadder lil not pass by the va gina. The vaginal fistulous orifice was not distinct ly made out Cystoscopy sho ved the bladder to have an accentu ted right lateral horn. The left urcteral onfice as early catheterized and gave clear urine. In the right ureter the catheter pene trated only 4 cm and no urine was withdrawn To dete mine the fun tion of each kidney a catheter y as left in the left is over and the bladder and the urine from the vagina collected separately urine drained fro i the b! Ider catheter cop cally the urr e from the left kidney was clear That from the right ki in a (vaginal urine) showed numerous colon bacilli

The r, bt kadney which was removed under ether r x the 1 w s small a d showe I the vellowish hite surface of nephritis and di tention of the calices of its pel is. The pitent made an uneventful recovery the fistula h it is spontaneously

The se ond ca was that of a 48 year-old woman who afte an operation to a neopl m of the uterine cervix unnated through the vagina. At inter mittent periods small quantity of urine drained from the ethra Cystoscopic exami ation showed the bladder to be normal and revealed the preteral orifices of alv. In the right ureter catheter was arrested at cm and in the left at 10 cm no urine drained from either catheter. The base of the vaging sho ed a s ft of atrix with two openings on the right and left. Into the right fitula from which urine was welling a bund was read ly pas dupward The \r y showed th t the catheter as in the right ur ter. The function of the right and left kidneys as determine I separately in the same m nner a i the first use No u me dr i ed f om

the bladder

The functio f the right kilney was the ethat
of the left. The urine from the right kidney, was
infected while that f om the left was cle. At
a other examuation the bladder was found to con

a other examitation the bladder wis found to contain 75 ccm of u ne which showed 63 gr of urea

and 7 2 gr of chlorides The intermittent presence of bladder unne indicated that the ureter was not transversely sectioned but had a lateral slit which remitted the escape of urine into the bladder in certain attitudes of the body

The author considered that a plastic operation would endanger the function of the good right kid ney and therefore advised the patient to near a

These two cases empha are the importance of making tests of the renal function before operation WALTER C BURKET M D is decided upon

ADNEXAL AND PERI LITERINE CONDITIONS

Moulonguet Dolóris P The Gland of Internal Se creti n of the Human Ovary (La gl n le à sé rets n de l ai e hum) G; colog: 193 x

In seventy five cases of ovarie removed by of era tion the author found the gland of internal secretion of the ovary in lipoid bodies which are most numer ous in the ovarian stroma and present al o though less numerous in the corpus luteum. In different ovaries there was considerable difference in their number and size but they were all ays present a fact not true of the corpus luteum

In the author's opinion the physiology of the ovary is limited to the function of reproduction

The variation in the ovarian gland seems to be the cause of certain structural differences Mucous hyperplasia of the uterus and fibroid are often associated with hyperplas a of the ovary Ovarian hyperplasia results f om an increase in the number of the lipoid bodies or yello v masses and extensive development of the external cellular layer of the corpus luteum. On the other h nd uterine hamor thages though at times associated with hyperplasia of the ovary seem er, often to be independent of o arian changes SALVATO pr PALM M D

Hornung Intrap ritoneal Hæmorrhages of Ovarian Ong a (L hémo gies tap t les d gi o at n e) G) clg 1923 xii 3 9

The author epo is two cases of intraperatoneal hæmor hage due to a follicul r cyst of the ovary The first v as that of a 38 year old woman who fol lowing a normal menstrual period continued to bl ed for two weeks A tumor was made out to the r ght of the cul de sac After an exploratory punc ture in t hich blood as obtained a laparotomy was p formed The tubes ere normal but the right overy was found to form part of a harmatocele Subsequent sections demonstrated the absence of The second case vas at 10 t id at cal with the

first except that the e v s almo t entire absence f ovarian substance

Theoretical cau es given for the cond tion are arices retroversion tumor heart and blood es el disenses leukæmia intoricat us and sexual abuses S LVATORE DI PALM M D

Vanverts M J Bilateral Cystic Epithehoma of the Ovary Extirpation with Cure at the End Nine Years (Ep thehoma cystique b lateral lo sure extup tion guer on se maintenant au boi de neuf ans) Bull Soc d'obst et de gy éc de Pa

1Q 3 XU 245 1 36 year old nullipara in apparently good healt complained of an abdominal's velling which had bevery noticeable for a month The hi tory includalso profuse leucorrhora for the last few years lact tion for four of five days after menstruation fleeti

abdominal pains and the loss of 5 kilo Examination reverled enlargement of the a 1 domen due to a tumor arising in the pelvis mass extended to the umbilious and was larger the left side than the right Vaginal examinatiindicated that it had its one n in the uterus other examinations were negative. A diagno is fibroid was made

At operation a large cystic mass of the right ova adherent to the intestines mesentery and bro ligament and a smaller adherent cystic mass of t left overy were found and removed with difficult No histologic examination was made. The po-operative course was normal. When the patient w seen again eight years later she was apparently good health SALVATORE DI PALMA M D

Spinelly M. Sarcoma of the Ovary with Multis Metastases Cured by Roentgenotherapy Aft Surgery (Sa ma ovar n met stass multis to on roent ent ap m tach ru gica) Acti

1923 11 154

In the case of a 3 year old woman a tumor th left ovary 35 cm in length and 25 cm in diamet as removed June 8 1922 Multiple intestinal a oment I adhesion metastases around the sigmoand a metastasi about the size of 1 fist closely a herent to the small intestine were found. The me a tases were not removed on account of surge diff culties

From June 10 to 28 a total of twelve hours deep roentgenotherapy-40 cm d tance o s m copper and 3 mm aluminum filter Coolidge tubi 90 000 Lv 2ma - was given in four sites abdomin dorsal and right and left lateral. The patient

covered and was still in good health to June 28 10: Microscopic examination showed the tumor to a sm ll round cell sarcoma. Two photomicrograp of sections of the growth illustrate the article SALLATORE DI PALMA M D

EXTERNAL GENITALIA

Leriche R The Treatment of kraurosis Vulvae

Sympathectomy of the Hypogastr c Arter The Result at tl e End of a Year (Traiteme t Luf sulæ i lsym I samp the tomie de la te buti 1a) Li 11 93 1

In the case reported bilateral sympathectomy the hypogastric artery was done. The operation h a good immediate result being followed by rap h ppearant of all ut | clase and old ct ve same

t ms

With enfold her in month the result if her mores I not. The patients the lead in occidents to the interest of the name in the present and an end is table to begun in trust I for it about the officer of the her her trust of virious time have the left the lines when occuriffe time to time before the

perate nit w s with ut the t W the kraurous at a trained by upg a t n the litter must be used by free the urg all produces after freed in the free no fixed to

excitle perations strain/cated

MISCELLANFOLS

Calcagni P. The Leet ex in Obstet (wand Cynecil gy () et with pinckapi 1 k

If with 1 if 1 ges wearing in it weet in 1 till 1 ar 1 ges 1 al c 1 s as those 1u to information these 1 till in the 1 till in 1 till in

Information, actribute to the next 11 feet penetre in fith see all setting to expect to it feet penetre in fith see all setters by a until the other control in the hold and it feet in a feet to the feet in a feet in the work in the feet to the feet in a feet in flegisher as fith it is a feet in the feet in flegisher as fith it is earlier to the feet in the feet in

Of a resist hour tradet comes non lufe those fue to the grast utrus utenne di placement and turn re-

Let strong or man the associated with a little Intel Entitles theorem real progular and the little part a soon time has the transported What the part of shawe thick walf. In the son letwe there is lightleng of the use with fashing or it wall and it massiften agreement into which her is to have treat a larmow stellarment, linesees (change,

their tera Instruments fummen Incesses fehanges de term rese is the teris 111 il. I the raif trible. The Illated in raic extent if the policies escript r hyma fithelyling colorable policies.

With right 10 th explicit hold the ters the author fixed was plant nor less two as the attention of the library librar

raas I while unlether grills as of pletter that III e pin I render the form to the form the second that I would be form to at I so Italian the inferrutine part as I so I all the inferrutine part is that with ghis of rith the uncertainty of the form the large I lims to record the large I lims to record the second sec

a learnt arrait (B. arriv).
Inther agents a learnt are letterauther built burgers a grown treatment for the learnt for a learnt array and a learnt are a learnt array and a learnt array array and a learnt array array

Styneric Live MD

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Coun ud P and Clogne R Hepatic Function
During P egnancy (C nt ibut n à létud d la
i tin hép tije au s i la g c e)

G &c et b 1 1923 \\ 372

The authors revie and interpret the finlings made to date in research on the function of the liver

during pregnancy

In the later months of premancy Cromician and lopper Ional crological signs of bilary retention in 20 per c at of normal pregnant vomen. In women presenting climical signs of hepatic insufficience the creening was higher. The congulability of the load in pregnancy is normal or increased and in the last three months the power of fibrin formation increased. The blood sugar during pregnancy is slightly above that of pregnant women in longical cases the role of the presence of

intorication serious nectio permiciou comiting clamp in or shock as in these conditions there i a histurbance of he er function

OM 11 JIT IO 38

W d E Marri g Pregn ncy Parturition and Tuberculosis L l 9 3 55

The lata of investigations made among tube culous women of the pool or lisse sho that marringe alone; unlikely to affect their condition and that if it does have any influence it is tick a apt to cause improvement a leteror iton.

Pregnancy and partuation ho ever are appt to make it your there also per cent chaine of the against a to per cent chaine of improvement. Ho ever so by a per cent of the somen led of sa cerbation crused by child bearing the unit includence of parturation is not fren fatal.

The adv ability of nlucing abortion in the case of tule reculor of men even yet to able The results of mearringe have not be enfully in vertical to the recursion of the recursi

The children of tube culous oman are entimes at to it the reculo as the of the lithy oman O 1905 such children nest grief 13. Warf 4 per cent we negat e 34 per cent tub reulous (15 per cent leed of the 1 a 1 ml 13 per tent rere suspects. On the whole the neressed rights

the chill from breast feeding by a tuberculous mother seems neglogible. That's five per cent of child en brea t fed by tuberculou mothers were negative while a per cent of bottle fed children of tuberrulous mothers were negative.

In Ward's opinion it i certain that the husban i will become infected unles he i congenically immune or already harbors a smouldering infection In conclusion the author states that if milk is

In conclusion the author states that if milk is available it is vise for the tuberculous woman to nurse the child for at least six weeks but the should never be done longer than eight weeks.

RAYMOND F WATEL M D

Voron The Management of the Pregnant Woman with Pulmonary Tube culo is (Cond. te à ten r. h. z. la tube uleus pulmo ai e enceit.) Gy c. t. bbst. 19.3 Viii. 41

I ulmonary tuberculosis may become very active

during pregnancy or after delivery With regard to their on mons as to the treatment of the tuberculous pregnant woman the author classifies obstetricians and clinicians into three groups One group v hich includes Rest Bernard Dumarest I ina d Couvelure Herrgott and Fruhinscholz are fundamentally oppo ed to interruption of the preg Dumarest maintains that the infant of a nancy phthi ical mother is endowed with a certain immumity and that eventually this vill become sufficient to immunize the race again t tuberculosis argument gainst abortion is that if the tuberculosi is mild or in it initial stages the woman will eventu ally reco er ithout the treatment and if the tuber culosi 1 extensive death will ensue regardless of inter ention. It is claimed also by this group that in luce I abo tion is often followed by the same com plication as a normal full term delivery

Another group of obstetricians and climicians favor the ap une abortion in all cases arguing that it is more timpo tant to safeguard the life of the mother since the future of the fetu 1 une rtain and that ge cation unquestionably aggravates pulmonary tuberculoss. They agree ith Mar glano that ther apeutic abortion 1 indicted al o because it is in

p ble 1) pr gno tierte vith accuracy the extent and sevents of the pulmonary lesion and its subsequent I chavior in every case. Not to act in the preence of this uncertainty is to expose the patient to an unnece sary risk.

Bety cen these two extremes is the third group of men ho while admitting the seriousness of regnancy in a tub reulous woman believe that the fetus should be given due consideration and that each case

should be judg d individually

In presenting hi or n opinion the author states that induced abortion is seldom fatal and never leads

to que k death in the case of staberations to run such as may occur following full ferrid bleen. In cases 11 which d with occurs during the ea her 1 and ortal months the abor to a saint lee stood steen the cours of g statu in 1n a very large number of cases distinct improvement in the pulmonary condition in noted if it in galo tion. A toron let a shad to it in a noted if it in galo tion. A toron let a shad to it in a noted if it in galo tion. A toron let a shad to it in a noted if it in galo tion. A toron let a shad to it in a noted if it in galo tion. A toron the a shad had been as the get thin has not large. It is not shad to be a shad to be a shad to the shad to a shad to be a shad

ke led up n th ord nir mensurs in generally mplyyed but secasionally historectomy is the method of close particularly in the criss of millie aged your n who are already mith a and trend another delivery. For letter less sterilizating vithout histore in whas its ad or text

JAMES V RICCI VI D

Pol k J O How the Pati of gy F 1 lains the Clin ical Sympt m Found in Ectopic Cestation B t M x 5 J 12 3 lx 433

On the l i f stuly of 400 ca coolectopic pr k nin a the author summarize the card and imptor s

r 1 m sel divel or p in d m n trul

The sulf none tof in in the able ments ully in one of the lower quelrants ather with out book and followed by the dicharge from the

vaging of a dark I loody flui I which does not cl t

3 Vervix native to the lightest movement
on ag nal examin tion

4 It nier mass bes d I had or rerely in front of the uterus whi hit d places

5 A light elevati n of the temperature and a I uc cyto is of 15,000 or more immed tely after the atta k of 1 in

Lyac bat no of the penel an increase in the size of the tumo mas of ur hile the patic t is under of sixitin

When the o um e t d in its progress through the tule it im nediately att mpt to er le into the muco an I the latter b ing unprotected by a w If form Id cidu allo all appetrat not some of the small r ralcles This s follo 1 by hamor rh ge 1 to the deidun nd nin ra n the tube ontents which is tretch a the tub and g es n c to 1 o of the earle 1 symptoms a feling f soreness ten n nd h oting knif like pains d e to the ttempt of the tube to e pel its for gn con The lie ding from the tube inste d of d as ng th ugh the ut ru con es out thro gh the fr e end of th tul grav tates t the cul de sac and with the t be which d ps d nw d and lak ardle au of t rea ed veight displices the uteru forward nd m ke up th cul de s c mass f th e topia The bl od n the cul de sa a s a ch m cal reaction in th p ritoneum h ch

ex ites perit enl enction and causes the symp

toms of fir leuro jt is und sen, tiv n s of the creat it he welljung, pertonneum become scele a tou and s nist ve and hen the cer us moved the ute o scared which are exceed by it is spond with jun and spir in The unret in the tute is firstlik transmitt it it whereas The die las there becomes intensity congested and blee is and the cervis voltens and opens if the owned the the cervis voltens and opens if the owned the the clerks it clear in the left of the tute is to on he rel id ways. We have the constraints of the contract of the contr

LABOR AND ITS COMPLICATIONS

Schw rz O II and kr bs O S Scopol m ne M rphin Seminarco I R po t of its Use in the Third Tlou nd Dalli ries in Branes Hospit I J im W is 10 t l v 1081

The authors use in their 1 ork sc pol mine stable, hoche or scopolatime (hocein) hid obromide in ampoules and morph ne narc it in mer nate in 7g does or not pline in a gr does of the cases of primip ræthes ute adm nistere livh in the uterine contractions ure strong and locut at regular inter als and u u liv 1 hen there i 1 tle st two fing is and u u liv 1 hen there i 1 tle st two fing is did 1 tation. In the cases of multipurze the proce lare is usually begun 1 th the first regular contractions that are putilled.

In the patient is always propared to diver before seems rooms is begin all after the utility particularly seems rooms is begin all after the utility particularly seems rooms to divide the utility particularly seems and berejes are covered with gauze held in place by adhe existing. The initial de of scope finine 1 grows 1 gro

The second injection is gi en us all forty fivminute after the first and is usu liv as I ge s the first. The morphine in cot n mee into or morphine is no er repeated after the first injection.

B fore the second I my ction in \$\frac{1}{2}\$ f \cdot e each c in temp lated with occurant injection the p tuent is request d to put h * index* fig to the try her nos here; a being cove ed. If she su is eds. doing the promptle she still refer to all contours of d attorn and the contemplated year out in gir can in most and the contemplated year out in gir can in most of the thard system but in not a mill n in most of the thard system but in not a mill n in most before the thard system but in not a mill n in most before the thard system but in the contemplated year.

The third injection i usually go n i rty fi e

minutes afte the second

After the third of thom m st pat his m m s flicently scopolarmized for to h so log r In m st cress the first stage of 1 bo sentirely nearly o er and the time is close thand at which the seminarco schould b depend to omplete thesa by o e of the general anasthet s

ORSTETTICS 131

However the ra or numerou case in which the takes of labor as protracted for many hour even for a day or two. The scopolamum method has proved most valuable in the excess of primping with under the membranes and a first stage listing from tenth four to forth eight house the laboration and the day must be watched most carefully.

The authors believe that the los of locomotor co ord nation marks the one boundary of seminarcosis

The patient must cro 5 th s boundary batch 1 just enough and must be kept from cro sing 1 be other boundary which 1 too much. The other boundary is exacted when during a labor pain the pupils no longer show the usual dilatation at the height of the contraction because they are already dilated to the maximum by the action of the scope lamne on the terminals of the third nerve in the 178 Keeping the patient within this narrow zone constitutes essentific semaneroses During the second stage of labor great care must be exercised not to induce too deep reneral annexthesia.

The contra indications to the use of scopolamine morphine seminarcosis are premature deliveries uterine mertia eclampsia placenta pravia and

heart disease complicating pregnancy

In the author's opinion scopolamine morphine seminarcos 3: the most effective method of relieving the pain of the first stage of childbirth. In the first thousand cases reported amness and other 1 e per fect results were present in 80 per cent. In the second thousand the results were petfect in 85 3 per cent cases and poor in 50 yper cent.

In many cases of multipare the authors use introvers or the control of the contro

The authors belve that this method can be carried out only by trained obstetricians in an obstetrical hospital and that it should be used only by those tho are will ng to watch the patient do ely om the on et of labor until its termination or those who have an organized hospital staff or t ained assistants at their command.

In p m prize when seminatrons i employed labor is best term nated by episiotomy and a perincal aforceps delivery this procedure however is by no means n ces rry s many of the patients will be del vered spontaneously Asphysia is not increased in frequency although slight oligopnoza is some times noted.

The chief disady ntage of the method is that it is time consuming and the patient must be constantly

wat hed through ut labor by those who are familiar with the method few buy ob tetricians are willing to give the nicesory amount of time an lindividual attention to one thin to love to the NO MD.

Bo 14r B F and Mecker W R The Value of Sacral Nerve Block Anæsthesla in Obstetrics J 1 11 1 g 3 lxx 1 9

The authors triel six different method of inducing anaesthe in and studied the results in obstetrical operations and in normal labor pain

The first method was the association of a low or idural injection with transsacral nerve block of the lower four sacral nerves. The patient was placed on the left side in a modified Sims. Josition The anastheva re ulting included the entire pelvic floor and wall of the uterus, the prin of labor being entirely controlled.

With this method each of a series of sixteen patients was given from 60 to 85 c cm of a 1 per cent procume solution. Ten minims (66 c cm) of epinephin for too c cm of solution ver added in all cae. The average duration of anasthesia was two hours and twenty minutes. In a second series of seventeen cases the addition of a 0.4 per censorium biocationate obtained and rotoring it.

In the second method epidural injections vere given without blocking the nerves Each of a third series of twenty two patients was given from 40 to 50 c cm of 1 5 per cent procaine with 0 4 per cent bicarbonate solution. The average duration of bicarbonate solution anxisthesia was one hour and fifty seven minutes A fourth series of t velve patients were g en from 30 to 35 ccm of 2 per cent procaine solution with o 4 per cent bicarbonate The average duration of anasthesia was one hour and fifty five minutes The fifth series of twelve patients received from 40 to so c cm of 1 5 per cent procume without bicar bonate In a sixth series of ten cases the formula was essentially the same as that for the fifth series except that epinephrin as used From the standpoint of the anesthetic better

results over a sh hly longer p nod of time were obtained by the transacral method. The addition of the sodium bicarbonate was of no advintage. The difficultie in the execution of transacral block in the partient make the epidural method the more practical even though the height of anxisthesia is variable.

The ninety cases studied were not selected being taken in succ s ion. The total number of patients delivered during this study vas 102. Sixty per cent of them were primipara: a percentage higher than the general average of the institution which 1.45.

The authors state that all obstetrical operations we have the operative field her with the area in nervated by the sacral nerves can be paint slip performed under sacral nerve blook, and thesia. The unmistikable relaxation of the pelvie floor facilitates any operation attempted by a yof the genital tract. Twenty one forceps operations were performed of which ten were low eight midlle and

three high forces leliv ries. In only three instances was any other amstitute employ of Fither and administ ed to one patient before the possibilities of block anasthesia were processed. In another case ether was necessary because the block an exthesia began to wear off before the forcept de hivery was completed. The permed it latation not only facilitat is the application of the blacks and with shortens the duration of the operation and refuse the number of permeal terms. The patient continued to have good titerine contractions unlist shortens as operated on immedit the fafer the intections.

and the operator was able not only to apply treet, in luring each contraction of the turns but all or to induce the patient to cooperate by bringing her abdominal muscles into action. Inter uterine in abdominal muscles into action. Inter uterine in mupitatio is and repair of the pelvic floor were all o sat skatchily done. Thouber argume 1 for the method was the absence of harm to the baby from the anaesthetic. In the past, the operation has often by a hurried, in difficult forecepts, act a because of

the danger of anæsthet ing the child

During normal labor the patie it was in tructed to bear John and ged to greater voluntary effort luring the uterine contrictions. In the absence if proper instruction and neouragement the parturent was apt to rest and delay the progress of both until the puns were felt ag in. The critical attendance and encouragement of the obstitution attendance and encouragement of the obstitution.

The effect on uterine co-tractions was inco-tant. In the majority of cases there van pearly complete cessation of a ntraction in thin it, in my utes after thin nject on was completed. This limit ution rarely lated moethant twenty minute—the contractions then gradually increasing in fequency and durations.

until lier a bort time they proceeded normally. The feature of greatest difficulty was the ecceton of the projection to the projection the projection to the

The duration of ana thesia averag d pp o

mately two hou

It was decided that in a erage cases the max mum ben fit from the injet n was I tained when dilatation of the os had reached at least 7 cm in primprise and 4 cm in mult page.

When as a result f the pite to oprio

labor termanated of g the part of over the case of the

Goethal T R Manu I E traction of the Pla

Manual extraction of the placenta folloring pell ic delivery curres at hit the possibit ve that the operator may find himself dealing with placenta accreta a condition in hich the pat ent's life may be endangered by shock and harmorrhage.

Clinically placenty acc eta occurred three times in 8 883 pchic deliveries in the hop tal a 1 tiwee in 16 486 deliveries in the out patient department or once in 8 223 deliveries. The bud but all the or once in 8 223 deliveries the futurately no autopsy via secured to prove the di gnosis patho logically.

o crtain method has been found by means of which the presence of a placenta accreta can be foretold. From a chineral standpoint a diherent placenta is a relative term. Not until the operator legins to take out the placenta can he tell whether he will find a placenta which is easily peeled of

ne hich is firmly adhere t and must be dug from the uterine vall or one which is oblended with the uteri wall that n lie of clavage can be made out. This may be as true of placentæ p ritally de

tached as of the c ent ly un eparated

One ca e in four of the hospital cases and two cases in fle of the out pattern case showed s me degree of uterus indeed in the case the sole and the

Such infectio as oc urrel in these cases we equally of related while type D athoccurred in ally of eccase a hospital delayers in which the uterus a ruptured it seems prob ble the most of the infection was dieto me rention of the

secundine

In a case freat lpl cnt in which peton his not cau displat in this to hours of the birth of the child in ualle tit in nicred. The ath has had one price that method of letting uch is a control of the priking the uterunt of the priking the uterunt of the priking the uterunt of the price.

Manu l traction su h a s linarily r ried out without g eat diffe ltv d tng Should sepa it in of the pl ent po mpo ble or s d ffi ult th t pl centa r t l gn d ttempte.

133 OBSTETRICS

at removal should be abandoned at once the uterus packed tightly with gauze as an emergency measure and laparotomy with hysterectomy performed with translusion before during or after the operation as EDWARD L CORNELL M D indicated

Audebert J L The Uterine Scar After Cæsarean Section (La c tri e utérine ap ès la section césar senne) Gy c et obst 1923 \

The author reports the histological findings in thirty eight cases of uterine scar due to casarean Twenty nine showed complete muscular regeneration three incomplete muscular regenera tion and only five a fibrous scar Even when com plete muscular regeneration occurs there still re mains the danger of intestinal obstruction due to the formation of peritoneal adhesions and bands and late deep infections from sutures These how ever are rare More common are accidents during pregnancy and labor

In two cases traced by the author there had been a subsequent pregnancy with a shoulder presen tation due to fixation of the uterus Abortion oc curred in eight of seventy seven cases reported by Van I euwen and in two cases reported by Morrison Lacombe It did not occur in the cases studied by the author

Premature labor occurred in two of nineteen cases reported by Marioton and in eight of fifty reported by Morrison Lacombe The incidence of rupture of the uterus in the last twenty years was 6 per cent

In conclusion Audebert states that in spite of the possibility of suppuration due to infection the uterine scar is often good both histologically and physiologically However as it is impossible to know which scar will hold and which one will not the pat ent should be kept under close observation luring the last months of a subsequent pregnancy in or ler that if necessary intervention may be done before the beginning of labor

SALVATORE DI PALMA M D

PUERPERIUM AND ITS COMPLICATIONS

Broul a M Tl Modern Conception of Puerperal

Infecti n (C ncepti a tu li d i fect on pu pu ale) Gy to i b i 923 vi i ach F The Diagno is and Prophylaxi of II uch F

Pue peral Fe er (le di g ost et l pr phil x l lat p pé ale) G3 c et bst 9 3 vi 36 Alfieri F Tie Th rapeutic M asures to Combat Pue peral Infection (S m t ap ut i pe eml tte linf t ep pal) Gi te tobt

BR URL stat s that in about 50 per cent of the cas s of 1 uerp rablever the streptococcus progenes th only organ m found The bacteria present in the oth rs given in the ord of the fr quency are the treptoco cus aureus and albus the colon I cillu the gonococcus anteroles and the spe cit c organi ms of the infectious diseases Among the lat nenti nel ar the diththeria typhoid and tetanus l'ac ll The anacrobes include bac llu per

fringens vibrion septique bacillus nebulosus an aerobic streptococcus staphylococcus parvulus and others Organisms other than the streptococcus pyogenes rarely occur alone

The sources of the pyogenic bacteria Brouha believes are persons suffering from an infectious process such as puerperal fever erysipelas phice mon furuncles acne and suppurating wounds persons convalescing from infectious diseases and carriers. The bacteria are distributed by objects or liquids and can be carried a considerable di tance Under the influence of light and desiccation they gradually lose their vitality. They escape death only when they re infect a healthy person or become adapted to a saprophytic life

Brouha classifies the infections as contagious and endogenous. The majority of the severe in fections are of the contagious type Causes of the endogenous infections are endocervicitis ulcers of the cervix degenerating infected fibroids pneumonic processes ofitis media mastitis parametriti and appendicitis As these infections may be produced by continuity or by way of the blood and lymph streams they may be classified as local metastatic and general

With regard to the question as to whether the vaginal bacteria may provoke such an infection Brouha comes to the conclusion that pathogenic organisms in the vagina are either destroyed or adapt themselves to a saprophytic life but that under favorable circumstances the saprophytes may become virulent

With regard to the pathology Brouha discusses the different parts affected. In the endometrium a septic and a gangrenous inflammation are dis tingui hed and in the uterine muscles a metritis a metro lymphangitis and a metro phlebitis ovaries and tubes are most often affected by a peri ton tis and less often by cellulitis of the broad ligament or direct exten ion from the muco a of the uterus Infection by the lymphatics usually causes pelvic cellulitis. Infection of the pelvic tissues by the venous portals giving rise to venous thrombosi is less common. The bacteria causing pelvic ab cesses are in the order of their frequency the streptococci the staphylococci and the colon bacillus. With regard to the gonococcus there is as yet no consensu of opinion

Infection ente s the peritoneum usually by way of the lymphatics of the uterine muscles and more rarely by direct extension from the tubes. In the very acute forms particularly those due to the streptoc ccus the lesions are few and there is very little exudate. When the evolution of the cond tron is le s rapid the lesions are more extensive and the quantity of exudate is considerable. Phlebitis is probably always associated with some other patho logical condition but in certain cases the symptoms of the venous infection overshadow the others

As preventive measures the author recommends the o'd nary methods of prenatal prophylaxis the interd ction of coitus at least two months before the expected delivery and strict asen is during d livery He does not approve of the use of antisentics or douches except in cases of definite infection

of the vagina or cervix

HAUCH states that bacteriological examinations do not prove the presence of puerneral fever as the same bacteria may be cultured from the vaging and lochia of women who have had a normal nue perium Cytologic examinations do not give any further information Consequently the di mosis must be based on the clinical picture. The diagnosis of puerperal fe er is justifed if the temperature rises to 38 degrees C the second evening of the puer persum and extragenital causes for this ri e can be excluded With repard to the diagnosis Hanch discusses puerperal fever in relation to infection of the external genitals the uterus the adness the veins septicæmia and pvæmia

In di cussing the treatment Hauch states that every precaution usually taken with regard to the nationt and the attendant in cases of acute con tagious and infectious diseases should be observed in puerperal fever. In the graver cases of this in fection nothing in medicine or surgery has be n

found satisfactory

ALFIERI di cusses the prognosis of the different types of puerperal infection. In his three clinics the mortality in cases of fever above 38 deg ees C was 11 per cent in the postpartum cases and 144 n r cent in the no tabortum cas s. For a rational therapy Alfiert believes that in all cases a careful bacteriological e amination of the loch a and the blood and a chinical diagno i of the site and ex ten ion of the morb d process are es ential. His conclus ons are as foll ws

The treatment of puerperal fever should nelud

local therapy and general th r py

I ocal therapy consists of methods of cleaning and di infecti g the genital parts vitho t injuri g th r interrity and of surgical measures to remove the mo t deep-seated circumscribed to 1 when the n fect on has not as yet invaded the e-tire body

From the point of view of t eatment puerp r l fever usually passes through three stag s In the first period the morb d lesion is ci cumscribed and I mited to the mucos In the son i perol the lesions ar still limited to the genitalia or adjacent structures (pel ic tissues adne a v ns peritoneum) but have passed the mucous b rars In the third period there is septicamia and the local process is

secondary to the gene al infection

In the fir t period the t eatment should be chi fiv General medical treatm nt which should always be conserv tive 1 and cated as an adjunct to the local treatment and to increase the organic defense in case the infect on should tend to spread In the thi d period f th i fection I treatment is useless and gener I treatm at should be establ shed without delay In the s cond period when the insufficiency of obstetric I measur a has been demonstrated surg al interf ence (hyster ectomy ligat on and resect on of venous trunks

lapar tomy and drainage colpotomy openin of pelvic phleemo s) may be considered

The probability of effecting a cure diminishes as the di ease advances Salvator of Palua M D

Thalh mer W and Hog n B M Puerperal S psi (B cteræmi) C used by Bacillus In fluenzæ 1m J O 1 & Gv

A primipara aged 34 years was admitted to the hospital in the first sta e of labor at 5 30 p m Labor and delivery were normal, the baby was born at 10 30 p m The postion was L O A A right lateral episiotomy was performed and low forceps used The 1 lacenta was delive ed ten minutes later by Schultze's method and the ep jotomy repaired with four interrupted catgut sutu es \itrous o ide orygen angesthes a was employed. Duri g labor compla nt was made of pain in the gall bl dile re gion With the exc ption of tesp atory infections and an appendectomy perf med afte an attack of influenza three years bet re this labor the na

tient's history was unimportant Forty-eight hours after deli e y she exp enced a chill lasting twenty minute An up and down tem perature p rsisted f ten days and on the tenth day there were four chills and temperature of ros deerces F A soft an al systal c murmur as note ! Blood cultures sho ed fourteen colonies to each cub c centimeter Thes were minute (bout 1 mm in diameter) colorl 5 a d transparent and sho d about th m typical hamogl binoph l with dark red accumulations of hemoel bin for a distance of from 1 to 3 mm from each colony. The olonies ere made up of extremely small sle der pleomorphic Gram n gat e non motile bacteria hich could he cultivated only on blood agar (bacillus influenza) Two a d four days later 500 c cm of blood were transfused. In the next few day femoral phiebitis developed Subsequently the pat at h d nume us chill but finally re overed a d as disch rge lat

It is a extr mely int esting observation that shile the vagin I and erv cal mea ho ed I rg numbers of various types of bacilli and cocci both (or m positi e and Gram negati e only a fe col on s of st phylococcus aur s and strit coccu a dans dev lope it the cultu s The reco ery in th case with a po tive bacillus infl nzæ blood culture licates that the infects z t as of this or graism d da tb lo g to the type of influenza bacillus which Cohen found so fr qu ntly fat I in c es ! bacteræmia accompa ed by m ni giti n ch ld

the end of two and e h lf m nths

EDI ARD I C R

Paucot II On the I lue f I c in Therapy in Puerperal Infect ns tl de t 20 p rpe 1) 1d b1 93 Ret for de gy

Of the lage numl of s cin s of r us o gan m att n t d in a ious media th t Pa ot h s tri d in the treatm nt f pu p r l septicami no e has pro d'effects e J MES V RICCT M D

MISCELLANEOUS

Balley II The Contr I of Midwises im J

In New York in 1911 the Bellevue School for Mulance wa cetal h had through the influence f Brannan It is now the only institution in this country for the teaching of milwives. It first it received a great lead of critici m and opposition but in the last fer years has been accorded the reco nation it leserves. The Lits Health Boart has refuse I to a lmit to practice any woman who is n t a graduate of this school or a similar school abroad a stan I which has had a d cite l's beneficial effect on the practice of milwifers in New York City The number of milwise has been r luce I one half only 1 too now being r gi tered. The delveries con lu te i l'a m lauces have been reluce i from one third to one fourth of the entire number. The han lling of normal ca s of labor la mil uses who are properly trained has reduced the maternal mortal ty from costs and the number of still orths

an leve infections. Criminal abortion has also been greatly lecreased and only a very small number of milwises have been charged with this or other missignmeanor.

The star liel for a lant to not the training chool had be high Nurs a shall be permitted to take the course of they intend to per citic maternity work in public leath positions. The practical training should can also attended to case of confine

The mit ife shoull nev r be permitted to take chirge of primipar us w men and should be required to present all cases for a prenatal examination in order that a proper diagnosis of pregnancial labor may be made by a me head consultant Agenial and rectal examinations should be prohibited. All cases in which labor continues for twents fur hours without lelivery should be considered almost further without continues for twents fur hours without lelivery should be considered almost further without lelivery should be considered and the considered by midware the

IDWARD I CRELL MID

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Lat riet A and Bertrand P Anatomical Re search upon the Innervation of the Capsul of the Adren 1 Gland Aldney and Upper Porti n of the Uret r (Recherches nat miques lan vat n des c p ule surrénal s de de la p t e supé en ed l'urete el Ly d 10 3 T.F 452

The extrans c v sceral nerve fibers do not form a true plexus but are ou te independent of each other as they penetrate the capsule of the organ The fact makes it poss ble to remove them vithout disturbing

the intrinsic visceral supply

The capsule of each adrenal gland is supplied by two distinct groups of nerve fibers which are extremely fragile and small but which never anasto mose Many of them present small ganglia alo g their course These fibers are arranged in a posterior and an internal group. Those constitut g the for mer arise from the terminal portion of the greater splanchnic nerve while those of the internal group arise from the corliac plexus. The uthors suggest that the cortex and medulla of the gland may have a separate innervation and that it may be possible to destroy one group of fibers without njuring the others

The visceral nerve supply to the kidney arises from the lesser and inferior splanchnics and from the cocliac plexus. The fibers are arran ed in an anterior and a posterior group which rarely anastomose They are very distinct at the hilus of the kidney and closely applied to the walls of the arteries

The nerve supply to the upper port on of the ureter consists of small branches from the fibers to the kidney Therefore when the sympathetic nerve supply to the kid ey is sectioned they must be re moved from the walls of the a teries entering the LOYAL E D VIS M D renal hilus

Southam A II The Figation of th Kidney Oua ! J Med 9 3 x 283

Facto s predisposing to d splacement of the kid ney are the erect postur and ce tain types of body form as shown by the shape of the r nal fossæ Mobile kidney occurs mo e frequently in females than in m les because in th former the renal fo sæ are open or wider below thin abo e while in the latter they are pear shaped and narrower belo v The determin ng factor in many cases is a rel ned abdominal will this is more omm n n f m le than in males because of inferior muscular develop ment p egnancy nd poo er muscle tonus The right kid y is more often displaced th n the left because of the shape of the ren I fossa and the pr s ence of the liver on the right side. The left kidney

is more securely supported by neighboring struc-The hability of the female to rend ds

placement begins at puberty

Anatomical studies show that the kidney sunra renal body and perirenal fat are completely enclosed in a single fascial sheath the perirenal fascia which is firmly attached to the diaphraem vertebrae nd the transversalis fascia. The kidneys are held in pos tion chefly by the penrenal fascia the renal nedicle and the intra abdominal tension

LOUIS VERWELT M D

Stewart M J nd Lodge S D On Unitat raf Fu d kidney and All dR nal Malformations B 1 J S \$ 93 1 7

Fusion of the kidney occurs in two forms the rather common horse hoe type and the ra e cres cent kidney of Gerard In cases of the former type the Lidneys e more or les normal in posit on but are un ted across the midline of the body by renal tissue or less commonly by a br dge of fibro a tissue They may be thus join d by either pole but usually the fus n occurs at the lower poles. In the crescent type of kidney the fusion is mo e intimate and there is more or le's asymm try

Gera d classifies fu d kidneys as follows

The horseshoe kidney (1) fusion at the upper poles (2) fus on at the lower poles

2 The crescent k dney () the preve tebral fus d kidney (2) the unil teral fused kidney and (3) the pelvic fused kidney

In the authors sen s of 6 soo autops es th re wa only one case of unilat al fu ed kidney and no case of crescent kidney Congenital absence of one k d hey is f rly common si teen cases ha ing b n found in this series in assoc tion with other develop mental anomalies

The horse hoe kidneys found in the authors series were of the type characterized by fusion at the lower poles by a mass of en I to ue The ages of the subs its ranged from 14 to 82 years. In the one case in which the condition w s unilate al no other m If mations were found and the condition was

not esponsible fo the patt ts death

the horse hoe kidney gro p

The cudence of cong n tal abse ce of on kidnes about the s me as that of ho hoe kidney It occu s more often n the left side than the right (3) nd in mal than in f mals (42) The weight of the single kid ev is usually abo e normal but a ldom reach a that of two h althy k dney In the authors group of cas s of this type the in cidence of r 1 d sease as the high as six f teen patients d d of caus s di ectly ti ib table to d eas of the s litary g The a er ge age f the patients was s m hat i ss than th t in

Three cases of pelve hidnes were discovered. Two ares of the usual type. In one the kindle, was malformed and obtained its blood supply by a short renal artery leaving the north were next in the period of the period south as the contraction. In two cases the renal condition was not associated with the crue of d ath. In the third case the ureter was 3 in in length and kinked and the patient a man 55 versor farge of old of sectodiany pelonephritis. Following or kittle order of the period with the period of the period with the period with

The authors report the autops; findings in the c se of a man of 56 years who died of acute general ized peritonitis follor ing col stomy for annular cir rinoma of the sigmoid. Metasta, es had I een formed in the li er and in the abdominal and med: stinal lymph nodes. There was no renal to sue on the left side although the left adrenal was normally situated The right kidney measured 16 5 by 7 5 by 4 cm Attached closely to its lover inner portion vas an accessory kidn's measuring 8 by 35 cm units had a hilum pelvis and ureter Roentrenographic exam nation after injection a ith collargol showed two separate ureters pelves and calvx systems. The upper half of the renal mass was the normally situated right kidnes, and the lower por tion the transported kit kidney. The right ureter w s 28 cm long and ran a practically normal course The left ureter extended downward a short di tince then some, hat sun ard across the right p oas mu cle and beneath the right ureter crossed the midline just below the bifurcation of the agree and th n took a normal pelvic course to enter the bladder at the normal point. Its length was 26 cm.

The right renal artery left the ageta immediately above the level of the superior mesenteric and entered the bilum of the right kidney behind the pelvis I second and much smaller artery arose from the lest side of the aorta a short di tan e below the fir t and after a course of 7 cm branched into four divi ions and entered the substance of the original left kidney A third artery of considerable size sprang from the aorta on the right side about a s cm from the bifurcation and entered the middle of the posterior surface of the renal mass \ fourth artery which was fairly large arose from the bi fu ation of the aorta extended upward and back ward and entered the bilum of the lower ren I ma 3 behind the pelvis. There were thre renal veins one fr m the lower and two from the upper half The ornfices of the ureters and the pheae uretericae pp ared normal

The authors have collected from the literature the reports of twenty cight cases of uniateral fuel reductions. In the r salient feature is these m literature to case are vy much able they defer chuldy in the blood supply and to some extent in their sace and shape. In contrad function to ce so for gentral absence of one kidney in which multiple developments are common unlateral fused kidney is

rarely associated with other defects of the gentio unions tract. The chincal importance of such cases must not be oscioloded. Unless a pselographic study is made the surgeon may discover at a late stage of nephrectom; that he is dealing in the developmental abnormatis, and even then he may assume the presence of nothing more unusual than a double ureta. On Il floures MD.

Longcope W. T. An Estimate of the Information Derived from the Use of Tests for Renai Function Bost If & S. J. 1923 cl. u. 73

The recognition of two types of nephritiss—one associated with chino lie retention and the other with user retention—was an important contribution to undogs. Nephritis is a general die eve in which the injury to the kelber is more than a mere mechanical injury to the secreting structure. If forts to correlate fur found at autopsy have been unsuccessful but the utilitation of three tests in the diagnosis of early chrome nephritis has prove to of great value.

Ih phenolsulphonephthalem test of renal func tion is characterized by Longcope as familiar and very useful. Another renal test videly employed is the determination of the specific gravity and the sodium chloride an I nitrogen content of pecimens collected at interval, while the patient is on special liet. The microchemical methods of blood analysis have greatly increased out knowle lge of renal function I ollo ing the slightest lamage to the kidnes the sulphates accumulate rapidly in the blood Creatinine being easily excreted is the last to ac cumulate. Uric acid is not easily excreted and may be the first of the nitrogenous products to accumu late The pho phates are excreted in combination with ammonia and then they accumulate they lo er the alkaline reserve an I give rise to aci losis A fourth method of testing renal function is the determination of the ratio between the concentration of urea in the blood and the rate of its excretion in the urine

Of these four tests those that give the most reliable results are the phthalen exe etton the re nul test meal and the concentration of the chemical constituents of the blood. In the last mentioned the most important determinations are the urea non protein nutropen ure and creatinine and car to make the profession of the blood. Function may be professionly future of the blood. Function may be professionly future to car have clause but when the circulation is restored and the congestion relieved it again becomes normal

In permicious unitaria and other severe unamias the function of the kidneys may be diffinitely impaired. In pneumonia in interest in the non-protein introgen and a decrease in the homolocation introgen and a decrease in the philialian excretion have be noted. In certain types of individual profound changes may occur and simulate conditions found in uratin 1 folio ing trans for on in cases of permicious anemia the presence.

of all umin and casts in the urine and a rise in the non protein nitrogen creatinine and uric acid have been observed.

In acute Bright's diser e the diagnosis can be made easily from the clinical acture and unnulysis In acute hypertension nephritis the renal function tests may be of d stinct value in the prognosi and in determ ing the progress fro 1 an acute to a chronic stage. The phthalein test is one of the mo t reliable in acute ca es. In most of these, the phthalein excretion i normal hen it is greatly reduced the prognosis is unfavorable. The ability of the kid neys to cone ntrate the salts and waste products is letermin I best by means of the renal test meal In nephritis an increase in inorganic pho phates in the I lood and ac dosis are usually noted only in advanced stages and an increase in the non-prot n nitrogen urea creatinine and phosphates in the blood in licates that the patient is dangerously near u armia. The study of the blood chemistry in ne phritis is most valual le in the prognosis and the treatment BE I MIN & ROLLER M D

Breed I M and Rendall J Some Observations on Re ults with Kidney Function Tests 1 n (1 31 d 9 3 0

Meer one hundred years of laboratory development in functional tests of the ki line; it is still im possible to determine definitely the nature of the lesion or the degree of k line; efficincy

Mbumn and c sts in the unine do not nece sarily indicite a lesson or lowered furction of the kidn y since both may le found in cardined sease. Neither is an increa e in the nitrogenous elements in the Flood a suffer in the sis for a diagno is of nephritis as this soften found in the severe acido is of in testinal loxaring and in undrained prostatic cases

The case of pouson mg lu to bothlo i le of mercury the authors found 18 gm of albuman in twents four 18 gm of albuman in twents four 18 gm of albuman in twents four 18 gm of 18 gm of

Kalbey heart and ya cular lisea e r o closely associated the the way be entired liferent manufestations of the sam and too the config to Right ether links e ularchandow have known neith the teging north end. Vi kowitz it esh the perior no hears nore it in its leg to the high kiley les on indias not second or it for north research.

I rol bort retest in possible to find all the substaces the flood which the image that) he been used the reteor which might hore not find the discussed his

ter tan umt creating gives ne to gu lin Ib lit wh chan ist relit a mals may ause evere ac losis yet a heh

treatinin content in the blood does not always pro-

The authors house the findings in 50 cases in which he authors house the findings in 50 cases in which were under on the mercinal for them were under of them were under of them were under of them were under of the findings of the desired of the findings of the findings of the secret of the secret one patient was rejected for the same, because of chonical Bright secret of the findings of the find

labor The authors conclud that no test for kil y function is to ber lie luponal ne and that them it valuable indications are variations in the blood chemi try and the specific gravity of the unne in augustive of cholocystits, when the gall blod fer as operated upon in such cases in the authors series these values decree to

BE TAMES F ROLLER M D

Da is V C and McGill F C The R I tion of the Bowel to Bacillus Coll kidney Infecti ns J E ol 923 233

The articles has close a study of the route taken whee can bacilius in its p. septom the bocklot the kid ey in caces of prelitis. The experiment lock the read and r po ted shows that intestin logital mass pass through the normal as well as the pathsh weath bock wall to the meeten tree glant. The impection of I rge numbers of actively greatly action local limit to the gast intestinal tract of the normal dig caused in a very molerate rect in the companion of the properties of the control was more promoted. In the a the respinon the organisms reached the kit by we will take the companion the organisms reached the kit by we will take the companion that the companion of the lock of the lock of the companion of the lock of the lock

In mild constipatio or harrhee in d gs there was no increase in the ab o pition of the organi me in the mes interic glouds and no u inary infection Compl to obstruction of the box 1 r intestinal 1 µu v on the thr hand caused an intelligent in meent right in absorption and using infection in meent right in the state of the properties o

There was no evid nee that gam ms absorbed in the mesent rie glint reached the killings by the limph test in the author sopie in would be possible only which it is established to appen fixe if city in contact with the pentium of clining the kind. It is 18 of MD.

You le k. Ren I An uel m (D. \ renancury m.)

of m aglosh frt yershilsuf creliromh hesolm frte seventy assocated with verigo lost brblee while stant it on a ladf to proventhe reell from filing he leaned far o crtothe bit bende, backward as vell as idevice At the moment she experience la severe pun in the left sit of the abdomen and bick hich made it diff cult for her to de cend the la I ler without falling She wa forced to lie down at once suffered from vertigo and ten minutes after the accident became uncon clous for half an hour

When the author fir t say her an hour and a half aft r the accident her face and mucous membranes were pale h r pul e vas 132 har l and tense and her blood pre ure 195 mm On the left side of the abdomen near the median line and just beneath the costal arch an area was foun I which was painful on dep pre sure There was no tumor and no rest tance. The pun on 1 re sure extended to the back on the lift it and was mot evere at a point in the posterior axillars line. The urine vas deep red and contained numerous reland white blood cel)

A largnosis of reute renal calculus was made although the prin on examination was only mol erate an I the collapse which I as a very prominent feature f the clinical picture was evidently lue to some other weakening factor than the pain The la re amount of blood in the urine allo spoke a nst renal calculus

With suitable treatment all symptoms disap pe red and within fourteen days the roentgenog aphic cystoscopic and other find n s were nega

Fifty 5 x days later the patient again consulted the author becau e of a sensation of tension and indefinite pain in the left sile and the presence of something moving in the ablomen Framination reverled in the left side between the rectus and the anterior axillary line a hard somewhat elastic almost immobile round tumor the size of a man s fist. When the patient lay on her side the tumor changed is po tion a little but did not move with resp ation. It was not continuous with the spleen Catheterization and roentgenological examination of the kidneys showed nothing patholo ical Dur ing the ne t three veeks the tumor d d not change in size. Since it appeared that the gro th had its origin in the left kidney operation was advised The patient refused surgical treatment

Thirteen and one half a ceks after the accident while walking the woman suddenly fainted. Conscousness was soon restored but the pule was 140 and respiration w s deep and difficult. The patient stated that she w s not suffering severe par but there was a fe ling of great tension in the left si le w th slight radiation of pain downs and In spite of a desire to mictu ate she was unable to or urre The tumo in the left upper abdomen had not changed in size but whil previously it vas el st c it now felt dought l'ke ordema The entire left s ie around the tumor and toward the back vas tend r on pres ure and showed slight tedema of the skin. The d. tended bladder reached alm st to the umbilious an I was found to contrib I co c cm of pur bloo! There seeme! to be a constant trickling of blood into the bladder from

Immeliate operation was again recom sbove mended but was again refused. Death occurre la fe hours later Autopsy was not permitte! Just before death the blaider again filled and reached to the umbilicus

In this case four months after an accident in which the left renal region had been squeezed and pulled a severe hamorrhage from the urinary pas sages ended fatally in a few hours This hemorrhage was into the ti ues surrounding the kilner and only in part into the urmary passages. In vie v of the cardiac and vascular fin ling the tumor must have been an ancurism of the renal vessels from rupture of the scl rosed arteries or one of their branches The first hæmorrhage took place im mediately after the injury to the damaged arterial will I rom the perforation in the wall the uncu ri m formed and grew up to the point where it was rupture I by a slight strain

Operation on the ancurism at the time the tumor was di covere i coul l'have restore i the patient to complete health

In its origin and course this case is similar to several of the t venty nine cases of renal aneuri m recorded in the literature to date. Such angurisms may be cau e l by trauma or by lisease

Of the twenty nine cases recorded only five were lingnosed with certainty during life and only seven were operated upon. Of the seven patients treated surgically only one died while of the eighteen others on whom operation was not per formed all succumbed. As a rule the kidney also as removed as its nutrient artery was the site of the disease

The feld of operation is best approache I by the extraperationeal abdominal incision recommended by Holmann for the removal of large tumors of the renal re ion CREITE (Z)

Will amson C 5 Some Observations on the Length of Survival and Function of Homog enous kidney Transplants Prei minary Re port J [1 023

Williamson placed autogenous and homogenous kidney transplants in the necks of dogs anastomo ing the renal voin with the external jugular vein and the renal arters with the common carotid and bringing the ureter out through a stab wound The technique employed in the blood vessel suturing was essentially that of Carrel and Guthrie

When one kidney was tran planted to the neck of an animal and a fe s days later the other kidney w s remo ed the transplanted kidney maintained I fe for months The phenol ulphonephthalein excre tion was somewhat diminished and the blood urea varied between 30 and 40 mgm for each 100 cm After several months the kidney became infected and dilated this increasing until the animal ded of erremia In spite of trauma destruction of nerve control and the abnormal location of the organ life was maintained for weeks with apparently nearly normal function

Foll sing homogenous transplantation of a kilony fresults were at first smaller to those following autotran plantation but the transplants functioned for only about four day it he time varying from tents four homogenous strang from the properties of homogenous strang from whe due to some of homogenous strang from whe deep to some the flood or planma—smallar to that accounting for the different blood propungs in the significant propuls of the different blood propungs in the

When a kidney as transplanted to the neck of a I g having two normal kilneys the nitrogene s lements of the bloof at times rapidly d creased I will be normal limit and the urea urea mitrogen and crettinin of imnated to the transplanted kilney were almost equal to the "ombine" output of both normal kidness "FFFFI" feet. M. D.

Richer Renal S rg ry ty the Sacrolumbur Approach (Chiru g rén.le p. r la g ne sa o-l'mbair) J d r l méd l ki 0 3 x i 7

The author m kes a vertical inci on fron the lat ril to the also of the thirm and sphit and retracts the two superficial aponeurotic layers the trow ril and servitu. O ly the dip loumly mucket then I cover the kidney. Beneath thi lummar mucket is all inquarial merce posses of liquid across the field. The six retracted and the perineal fats is entered. The perish of the kidney all near sought. On the right is left it found at the let of the second lumial vertelers and on the left is left. It the higher. Through the incisin described the resultanter of 60 cm below the skin m let left.

This appears h's all ocated fr the rem val of mill or attophed is let us nephrotem rephrapears proton me platics on the proton teral area leat on of the runtip before expectable in certain langerous nephrotomers lig toon of the renal artery or to the runtip of the platic proton in the southed tempor is utertoonly ben catheterisation must be avoided tempor is utertoonly as the same surgey of the supparental capsule.

I pin F Urinary Incontinence in the F m le Due to Double Ur t r With an Abnorm 1 Open ing (I is n du me ch 1 femm par eté indie à embou hu norm!) 1 kd mal d

A distinction is made between u mary mounts mence of the day or night type and complete in continuous at all times. Essential 1 continuous is

usually nocturnal rarely durnal from the form of the up to the form of the up to the u

into the liddler. The third connects with the kilney opening at one of the point mentioned. In other cit est it is may be two ursters one opening into the lit iler in the other at an abnormal point. Case of the latter class are easy by disposed as systoscopy, lows only one ursteral ordice opening line the litalies.

the Had ler Including the author's case only twenty-siz in stances of utinary incontinence from a supplement ary urefer opening abnormally has been found in the literature. A table of them is given. Most of the subjects w re very oung when the condition was noticed. Oth is were nearly to years of am-In most cases the incontinence was parts ! The urine m y escape drop la drop or by thathmic eraculations. I ramination mu t be made carefully will speci I attention to the unnary meatus the vulva and the anters r vacual wall. An opening in the urethra man he f and with the arethroscope Instead of a simple onuce the I normal open n may be several slits. On account of the difficulty of catheterizing the abn rmal preter its origin i obscure A cyst or dilatation above the opening may have as an exit a very small orance. A review of the reported cases shows that the abnormal opening correspon feel to the ri ht ki ney in nine cases and the left ki inex i ten in two cases lilateral d abl preter was f un ! They leterminations have been made at aut my an I by the cath ter or sound an I recently by means of pyelography. In the author's case hi h lacked all symptoms pielogr phi on each sid was done. As a companion of the plates sh we lit! I the left pelvic sh I w was incomplete the con lusion was framn that the supplem ntary ureter wa on th t le

Surgeon h c chosen the upper approach to implant the supplement rw utter into the bit11 r by an intra or an extra peritore I method. However, the p rition of the kinery corre poil agr to the supplem ntary ureter is usuall valueles as a any peration for the implantation the ureter. Total nephrectomy i too r lie! I gigt on of the u eter usually fails. Then I call occuration in p rit i nephrec

ually fails. The ideal operation in portion in the fails the been done successfully in three

The case reported was that of a wom n to years oil who was in good he life every for intermitted uriney escaped from the method to the control of the contro

At operation through a lumb appro ch the k lne; was exposed and a supplement re ureter as lage as a thumb was found. The normal ureter h d been marked by passing a so nd into it. Variation perfections, we don't hrough a furrow marking the division in the kidney and the ureter was double ligated before it was cut off

Examination of the pecimen showed that 15 cm of the abnormal ureter had been removed. A little unne leaked through the inc ion for several vecks. At the end of three weeks draining of the remaining portion of the disted abnormal ureter through the vagina was nece surv because of slight infection. A cure resulted. FAFIGOS SPEED M.D.

Romiti C A Report of Pive Cases of Double Ureters Complicated by I yelonephritis (Sopr c que c i pe ti d dupl cità ur t ral j bonefinto) i ch f l di h 1923 11 33

The author d cus es at length the symptoms and find gin in the cases of pselonephritis and double ureters in his hierphrectomy visit done. In only our case, as the duplication compile to in the other is the ureters fused with one another at various level be fore these intered the Hadder Komiti stresses the point that these aim makes are not nece swill pathologous control of the control of the

Reynolds I R Th Treatment of the Ureter When Keph ectomy I Done for Tuberculos s of the Kidney C If a Stat J M 923 369

The combined operation Reynolds recommends may be begun either up in the kidney or the ureter depending up on the requirements of the particular case. If the kidney is first attacked it is exposed through the usual bilique incision thoroughly fired it is attachments down to the burn of the pelvis and dir pipel with the ureter into the wound is high through satures here in hye sor by through and through sutrest.

In the next step the patient is placed in the dorsal portion and through a lateral rectsu incision the pertoneum is e posed and leflected to and the heritoneum is e posed and leflected to and the mid ne until the uret r comes into vec. The u eter is then stripped do n to the bladder where it is igneted and to index and its ends are caute read with lighted and to index and its ends are caute read with ney until it can be del vered with the kidney through the lower wound. The vound is closed, which is the lower wound. The vound is closed, which

dramage or at the most with a soft rubber d ain. Sometimes it will be d surface the p o cudure by first doing the ureteral dissection in f out closing the wound and then proceeding with the closing the wound and then proceeding with the thing of the th

1 The combined operation adds but little if any to the surgical risk of nephrectomy or ureter ectomy

2 The chances of the formation of a slowly healing sinus or a fi tuli are lessened

3 If the foregoing observations prove well founded by the experience of others it i probable that the combined operation should be done more frequently esp cially in cases of renal tuberculo is

Louis Gross M D

Hyman A Empyema of the Ureteral Stumps Following Incomplete Ureterectomy A 5 rg 0 3 1 vm 387

There are few reports on the fate of the de ease] ureter after nephrectoms. The lower much or two of the vesical end of the ureter being the most this cult part to resect is frequently left behind. As the stump remaining may cause considerable trouble and persistent prunia it is important in performing a primary ureterection, for no further to excise the ureter do a to its entired most of the property of the pr

IBUMAS P PINEGAN M D

BLADDER URETHRA AND PENIS

Joly J S The Operative Treatment of Vesical Diserticula La c 1 1923 c 445

In the operative irectiment of vesical diverticuly preliminary cystotomy is disagrous because the districtural routice becomes closed when the bilded contracts around the cystotomy tube and the diser ticulum then supporates because no amount of vesical irrigation will reach it. Therefore a preliminary cystotomy should be done only when the kidneys are so severly damaged that the patient cause are so severly damaged that the patient cause discreticulum is gro sly infected the bladder should be opened and two small tubes should be plyced in the discreticulum and a large tube in the bladder.

The diverticulum may then be success fully irrigated.
Diverticula may be excised from within or from without the bladder or by splitting the blidder wall. An excis on from without the bladder is suited for diverticula situated high.

The intra esical operation is done by encircling the diverticular orifce by an inci on through the entire bindder wall and removing the diverticulum by blunt dissection. This is suitable only for small diverticular.

In some cases the sac may be invaginated partly from within and partly from without. Young has invaginated diverticula by suction. When the sac is large and thin the methol of combined invagination and inversion is particularly effective, but when the sac 1 low down on the posterior wall of the bludder where the w lisare thick, and inelastic and when there is marked percystitis this method is less success full.

Vesical di ert cula have been frequently diagnose i as prostatic hypertrophy When these conditions occur together they should be removed at one operation if the is possible without too great risk In case fater and testialisms that utilise in meeting perspective. We not be either the testialism will be the fater than the fater that the testialism of the fater than the angle of the fater than the state of the fater than the f

In the Libert Land Company of the Co

the natery to tail the form of nature to get the note of the term to get the note of the nature to the note of the nature to the nature of the

it if undistant it is not the control of the first term of the control of the con

r in thill about the engated signal of the state of the s

Ly man lenim selt in the latter a the self time his man at given in literating the firm a reform his men at given in literating the light from his self in the less has care in a Mithelment less lifetime the bester complished to the lifetime the bester complished to the firm his firm at literating to be reformed to the literation of th

It is a map in the second of the self-second of the self-second of the second of the s

It fit but I to be rear black of limits and main ret I limits limit for limits. It was a limit for limit for the main rear at a limit for limits a fit that he had a limit followed by the limits a fit to the limit followed by the limits a fit to the limit of limits a limit when rear a limit was a limit of limits and limits a limit was a limit of limits and limits a limit was a limit of limits and limits and limits a limit of limits and limits and limits and limits and limits and limits a limits and limits a

I thrate o thes will ge tir eg huit ins to

"More to the control of the control

the kill live prat

Il resteath fill wing to nife
fill igreetia littigue altin l

in 13 per cent of the cases of papilloma malignum; ilment is sometimes completely effective in 14 illary and in 23 per cent of those of non infiltriting. Carcinomata four small and two large tumors of papillomata By a lasting cure is meant freedom; withis type and one small infiltrating cancer were from recurrence for from three to thirteen years apparently cured by it However attention is called to the fact that in cases of benign papilloma freedom from recurrence for many years is not unusual Of eight patients with papillary cancers only one remained free from recurrence at the end of eight years Of ten vith car c noma solidum only six survived the operation and in five a recurrence developed after from one and a half to three and a half months The results of operation were therefore very poor Total removal of the bladder was not done

In monerable cases palliative operations should be restricted as far as possible. Although electro coagulation has now been in use for more than ten years and there are numerou enthusiastic r ports recommending the intravesical operation comparatively little evidence of definite and lasting suc cess has been offered. The author believes how ever that in carefully tho en cases the results may he better than those of open operation

ROEDELIUS (Z)

Young H H and Scott W W The Results Obta ned by Various Meth ds In the Treatment of

A review of the 380 cases made by the authors show that about 80 per cent of bladder tumors occur between the fortieth nd si ty ninth years of age the incidence in these three decades being about equal A tenign papilloma in a box of 15 years and a carcinoma in a man of 26 years were en countered but usually the mal gnant tumors occur somenhat later than the ben gn

Both pap llomata and carei omata are most fre quent in the region of the trigone and ureteral orifices the adjacent lateral walls of the bladder and the v s cal neck. The anterio wall is less fre quently involved an I the vertex and upper posterior

wall le st frequently attacked Resection is most easly do e in the vertex and the anterior upper late all a d posterior walls and excellent re ults may be expected f om radical re moval of a wile margin of bl dde wall Cood re sults may be obtained also from resection at the base of the bladd r and in the egion of the ureters When the es cal neck and prostate are involved deet cauterization s far more effecti e than exc son

In cases f benign papilloma fulgurat on is usual ly the method of choice but when the tumor is large radium is of gre t as istance in causing its rapid di appearance Because of the potential mal gnancy of all vesic 1 papillomata rad um shoul l generally be ppl ed if possible. In cases of malig nant papillomata rad um applie t v th an oper ti e cystos ope and held firmly in position with a clamp fastened t the table is of first value and gives the best results. Here aga n the combined use of ful guration and radium is advisable. The same treat

When the tumor is definitely malignant or very exten ive and particularly when it is infiltrating it should be attacked suprapubically. Care must he taken not to touch it or break off any papillary processes and alcohol or resorcin should be applied to destroy any cells that may have droppe I into the his ider or wound

If thorough resection with a wide area of healthy bladder wall is possible it should be done

The position of radium implantation is still un decide! In a few cases it has given remarkable results but it was always associated with deep and uide cauterization As a whole however the gloomy autlook which was held as to the curability of bladder tumors has passed. I ulguration radium electrocouterization and coreful radical resection have transforme! the situation so that today about o. per cent of the benign and 75 per cent of the malig nant papillomata about so per cent of the papillary circinomata and about 25 per cent of the infiltrat ing circinomata are probably curable by one or more of these methods OSCAR E NADE W M D

Judd A M Urinary Symptoms In Women Due to Ur thral Lathology Only Am J Obst & 10 3 1 3 8

The author calls attention to the importance of recognizing pathological conditions of the female urethra especially chronic infiltrations and infections of the urethral glands. He has seen many cases in which the infection i as at first suppo ed to be higher up in the urip ry tract and the urethra s as recogn zed as the source of the trouble only after the absence of higher infection has been demon strated by cystoscopy and ureteral catheterization

Conorrhors of the female urethra should be treated with as much care and by the same methods as gonorrhoxa of the male urethra In Judd's cases irrigations of acriflavine 1 6 000 to 1 4 000 are given with a special irrigating tip and with the reservoir at a height sufficient to overcome the cut off muscle Later applications are made to the inflamed areas of the urethra through the endoscope

HENRY L SANFORD M D

GENITAL ORGANS

Randali A The Morbidity That Follows Prostat ectomy ttl to M J 93 111 8 7

Randall states that although the mortality rate from prostatectomy has been reduced to about 10 per cent in another to per cent of cases there is only a partial return of function following the opera tion and these cases al o must be classed as surgical

In one of the two types of prostatic hypertrophy the gr v th grad rally dilates the internal sphincter The surgical indication here is to remove the growth is uprajul prost t t s Inth proc fr the Ili I q in ter will not be into was a leaf relability of F l regard han per to firm be epe ted that the ortern I photoc will tepain its tendent will fe cite will tepain its tendent will fe cit.

In the there we have the petter by the present the noul all with calletting the formula bility at least the transfer of the could be reached by the could be reached at the month of peatly Meroner of a spirity of peatly Meroner of a spirity of the transfer better the model of the transfer of the transf

Inth provening 1 became on a part of the provening of the

Infits I am if notifice representing four per in his a set of the many in each of the many in the process of the many in the m

tut a 144 prombers.

In the few set reed but he tert the lithelity to recent to two tax on the finite in which the first term is the first term of the first

Themse wo just its rear editeral. It is ill hippega then out In mospie if the major if the major in the man is not term and in others the just as a last it is ill were rem. I A munit of rafum needs without just in the civity of the I still other cases in its, was rere edited that raft in it wer left if lives from new work must be made in the most into the major in the protection of the minimal or ill were rem. I Deep rail theraps was employed in the cases

There were no go, I results from this neth 1

Through 11 each tipe ellem reprograticative twith and set of each amount of process of the set of t

Ciry W. Br. 72. and Res its in Maligna to Disease of the Testi. 1. C. 1. 3.2.1.4.

Aprile need to a subbarg alternated the stress in employment to case the stress in the

MISCELLATEOUS

Tru I frea 310

Cunningh m J H C et R C and Da l T

I in intherptic by tographic idedium J

C s j 55

I remerium the atheral nelse or l'argent amit red precente bou fuits per cente amit of the theory of the amit of the theory of the transfer of

Mort n H H T mpor ry suppres ion of trine 1 Howing Doubl Py to raphy J I w 3

A case is retain which possens of unrelight to the a table to the lift in dable the retain to the transfer of the second than the wallstate the grant of the second the grant retail.

F Ne r MD

Jal II The Intra enou Injection fundicecarmi in the moosa see py life is newed to the any kine to a Chrowit tily 214 files (1) (1)

the fine error of the transmitter to the performance of the performanc

t rk tta

Age tail might the remark list he mentil here of the tope with a first mount was seen that he had been the seen that he had been the seen that he had been the seen to be the seen that the seen that he had been the seen that he had been that he

excreted appears in fifteen minutes. Up to fifteen minutes the secretion increases rapidly. In the next ten minutes it decreases as quickly and then gradually disappears.

With this method a rough estimate of the renal function is obtained. Long delayed ind gocarmine secretion points to definite renal affections

HAGEMANN (Z)

O Conor \ J Further Observat ons on the Blood Pressure in Cases of Ur nary Obstruction J Urol 923 x 135

The points brought out in this article are summa rized as follovs

r Complete drainage of the bladder in cases of unmary retentions attended by a market fall me without blood pressure during the first forty eight hour. During this period the renal function is diminished as sho in by the phenolsulphonephinal cut text and the quantitute determination of the urea in the blood. If the retained urine; gradually executed the decrease in the pulse perse ure; less marked and the renal function is only slightly diminished.

Before the institution of permanent drainage all patients in a pre u æmic or dehydrated condition should be amply supplied with fluid. This can be quickly and safely accompl. hed by the intravenous

ing tion of glucose solution

3 If satisfactory drainage of the bladder is continued the blood pressure is gradually maintained at a definite non fluctuating level. During this period the adequacy of the renal function and the general condition indicate that the pati int is in the best possible state for operation.

best possible state for operation

4 Lat ents prepared for operation by waiting
until the fixed blood pressure level has been estab
lished show a very sl ght postoperative deer ase in
the blood pressure especially when glucose solution

is given intravenously both before and after oper

5 In the majority of patients who suffered from long standing urinary retention and originally presented themselves with hypertension the reduction in the blood pressure resulting from treatment has so far been permanent. The pressure is high only in those with cardiac disease.

6 Obstruction in the course of the urinary tract must be considered in many instances as a cause per se of high blood pressure. This may be true even when the amount of residual urine is small.

GILBERT J THOMAS M D

Rogers A R Some Conclusions Drawn From the Observation of 4000 Cases of Gonorrhoea Treated in a Public Clinic C 1 fo a St 1e J M 923 tt 425

Rogers maintains that a person with acute gonorthea should live and work where drinking waters easily obtainable at all times day and might les should never take a glass of water and should never take a glass of water without taking three. If he rises to utinate in the night he should drink copiously each time. The purpoe of this focusing of fluid is to wash out the inflamed canal.

Protargol as a hand injection and permanganate of potassium as an irrigation accomplish more in the way of local medication than any or all other drugs the author has tried

Many if not most cases of so called chronic prostatitis and seminal vesiculitis which are of gonorrhad origin are not gonorrhae and should not be treated as such

The use of sound to clear up a chronic discharge as recommended by many authorities is of no value unless there is a urethral stricture in front of an infective area Lours Gaoss M.D.

SURGERY OF THE BONES JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BOYES TOINTS MUSCLES TE (DOYS ETC.

(aan I Tuber-ul I fthe Stafts fthe lo g . D Sh detkahert 1 () ,

The extremely has I it at more town the etc. clay 1 th was a cr I g m gr m u anlittt ftul i dib saite fab In I hapte of II thelt river fe (an granth for it tobercum fith It felt light ralan a niere t ttat to aff to a little thatet conth rum to t t nathe nitte et lity ri semint feat fun telestale Inst fem e fill trumb hiften mith at ign to tag algalwithout kî tir in if I finitely accept the thece to I ash invertel for se filled ath w re l gt 1 - 1 e il nulin

an n! In the ff or f am pige færat gount moder in the times and A Al I sen miest titna it am t be niel it rentgerptreint it imirt the f bft n med th

tier n In I a

th I tm nt (n fro to the alt the life both wit I perger in the t and t e therman espell to the rolling gestrant ta f gm at hit e fiele for the f it fmal tignest n ith fem tn (rm) set oil ils steep in make c 14 1 inetdatal notuth jimtil l fint of nf n nith peris 14 1 ing itt er stligt fan teum thintages at tongomers half

trept the ascelate press 11 half live 1 fgns ntre 1 th h tu Areter am 1 th farm 1 t klj i wling of th 1 th r 1 wh h met mak in meht h 131 th trie to fatoffing of fr th pphy line (ntt t res ton 1 th rdun perimitwith stilt pur by m n f t r ig Mirth perat i th p r h edge l livit n per taton and rguzt nl while thir peg effel bling bort Athi the solth the flustile pertinguing alle h tinnk fift f Imntraff a fe i thite

It men are tel real me I the shaft the f me will ru ar a to rum the ling fed i think hole lips i ! I the fi type to get solders in intue latype le gib inilité pour le que le a l'entre cation (hong). In feme tu le in the tengt all alte 1 f nt A charact t ta fatie et alme erfan internal je tectiv militan fat ess en mitan galtie internal uten t th t ... u tanta if erest ibi turles the one relates to a r ! th tre tm tah ullbe rateat

A sper a fe n an amy til fem s th freen f number of ten cost find tt I It test kennle mit this this fit the the let aneters hofth ma sers a frm th other The will frontbeolachmit the da jum Whethe thinet the It u apul t en agen rolammel rectine ulra be I time to a thickwealth man It will be care out at at hi extreme! rie use a hit tir il flesh ch er la the mit w fre ft : ic af a fulercu nd of the entitle but the and because in

if t eleft it at mily so recharges in the tin. The progress is any unit orable In e n I + i th auth r fesenbes the ber gr n e ch n f emelse p art to ereal a fth h it and reg et aur of the type The c se w that of a sev 111 wh mucht to atr at if if a pent reco fra tue t the m f fab Aff I the t bla Th tubercut pick as begin at the all 1 ft l trke the ghit warlith lint at one i nt and atta led the shaft of the tib a free post e to the le f stige Healing of

the fracture r parel t e month Brain NG(7)

R in y B R Presenti nof Del semities in Acute
Segical 1 ins in Clildren J M 22 Sale 011

in chillen Tragfern m tol ethnis the este mt shall be maintan d in the posti nth t will be much u fill fill using my et reco everin

wh hat will f note a be tall ankal sas occurs Ih and | t bult be tright angles t the leg th k nth at nfal post a the thigh int at mr thin right nel thith fr m it nt I the writ in I roll at n the fingers tr ght andtl a m wil al l; tellfrom the b d It I pd se se the chil h libe fix don the Brad for lier e lat ! ti n nt i ternal rotati n ant me I with Hu L ext n ion.

In te the us of the me ill ev i me there is a constant ten len w for the lower taw t swing to 111

147

the side of the arthritis and remain fixed in that position Murphy keeps the wooden bite between the teeth throughout the acute stage so that after ankylosis there will be sufficient separation for eat

ing and for cleansing of the mouth Burns may be followed by the same deformities as arthritis therefore the same precautions should be taken and the same splints employed for their

n evention

In the opinion of the writer Volkmann's ischæmic contracture follows the too tight application of a coaptation plint a plaster cast or Buck's exten sion No operation set devised treats this condition RUDOLPH S REICH M D successfully

Regard and Dunet Tuberculous Hygroma of the Subdeltoid Bursa (H) gr ma tuberculeux d la) Rev de ch Par 023 b ur sou delt fie zl 194

Tuberculous hygroma of the subdeltoid bursa i very rare. The authors review the few cases reported in the literature since 1923 Mornac collected four teen ca es in hi th sis published in 1899 but to date fewer than thirty are on r cord

The author's ca e was that of a woman 30 years old who had had a swelling of the left shoulder and pain on movement of the left arm for a year. The sy elling was on the anterior surface of the shoulder an I about the size of a large orange. The skin was movable over it an I several d lated years were seen On the posterior s de the limits of the swelling ere not clarly outlined. The should r movements vere normal The \ ray sho sed no bone changes

At operation the bursa was punctured and about a pint of clear sticky liquid was evacuated deltoid fiber vere carefully separated and the cyst vall r moved \ cure resulted. The all of the burst wa 4 mm thick and its lining was soften and thickene I by fil rinous mas 's Hi tolo c examina tion sh wed th tumor to be a tuberculous hygroma

I requently tul er ulous bursæ contain rice bod es Some of them show to e colored fungosities bathed in a clear gelatinous fluid. It tul. formation is rare During the development of the hygroma which is slow the I broud becomes atrophed. The best treat

ment i surgical emoval of the sac wall RELLOCG S EED MD

Je sner M I uetic Spondyl tis (Spo dylat lu t) Al II h h 93 638

Suph I s of the spine espicially in its miller form 1 more comm n than ha be n generally belie e l and mut b kept in mind on account of the grat and that to kept in mind on account of the grate variety first quelte. The author reports three case ob veilding one year. Since 21 the col-lected ghty eight or exfrom th. Cerman I terature n 1011 fe cases ha e been publ hed in (crmans but a great number ha e been r porte l in America

Very often other bones a e d eased in a ldition to tebræ Frequ ntly th differential diagnosis between tuberculous and luetic pondylitis cannot

be made without a Wassermann test and an \ ray examination. The success of specific treatment is strking

Hohlbaum J The Bursa Suprapatellaris and Its Relation to the knee Joint (D. Bursa sup a pat Il ris und ih. Be hung n zum kni gele ke) pat Il ris und ih B t kl n Cl 1923 CTX11 481

The author studied 252 knee joints from subje ts of different ages to determine the reasons for the difference in the location and extent of the per forated opening from the suprapatellar bursæ Taking into consideration the mechanical influences as well as the mechanical cause for the genesis of the suprapatellar burse he concludes that the perforation into the knee joint u ually occur at the end of the fifth fetal month. In the development of the burs's as of congenital bursæ in general mechanical in fluences are paramount. The cause of the difference in shape and extent of the perforation from the supra natellar bursæ into the knee joint is to be found in differences in the mechanics of the joint and the location of the quadricens tendon with respect to the condyles I rimary d sposition and intra uterine in fluences are other factors CREITE (Z)

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Sorrel E A Report on 166 Operations for Rachitic Deformities (\ p po de 66 interventions po del tmat us a hit ites) B II t mem S d cke 9 3 2 7 430

The operations reviewed included seventy seven MacEven surrecondylar transverse estectomies eight cunciform osteotomies and one Ogston trans cond) lar vertical osteotomy for genu valgum. For the correction of ra hitic deformities of the tibia in children forty four cuneiform esteotomies and eight moulding o teotomies were done. Four cases of genu varum and two case of deformities of the upper hmbs were observed. There was no delayed umon or suppuration Seventy six of the 166 operations were done with the ircular saw

Oml redanne believes that callus forms more rapidly after cutting vith the chis I than after cut ting with the saw that in rachitic children simple o teotomy is better than cuneiform osteotomy he cause the bony gat is read ly filled that crossing the epiphy seal line in children is probably injurious to later growth and that the function of the articular cartilage in lependent of the epiphysis should be tud ed

Cadenat cons fers cune form osteotoms prefer able to linear osteotom) when the angle of deviation is great and especially in the cases of adults because fte maturity the bones are less malleable and

osteogenesis i less active

The author operates only upon rachitic de formities which interfere with normal function or are seriously d figuring. He delays operation until the \ ray shows that the rachitis has been checked

In the use of the electric saw the bone is denu led by incising the periosteum and sliding a Faribeuf retractor bett een the periosteum and the bone. The retractor protects the soft parts from the sax Accurate calculation of it is sue of the ban we like to be used to c it ct the def milts is important. More perfect re luction is and to result if sm II

edges are raised until the proper quantity has

teen rem ved

Cad not muntains the plane surfaces in naturals contact by fung them with real er or kangaroo tendon or chromic catgoit. If a consignorum is made with the limb in the appricing to correct position and another rocatgenogram made on degrees to this and another rocatgenogram made on degrees to this new many magle of leviation is shown. The bourn my be cut and the find inclination of the I give the maximum anale of the state of a six of the product of the

Although Og ton's operation (vertical transcon'ly) is not continuously in the articular and requires ing rous agen as and although the part play id by the articul cartilage is unsettled the authoriem ploys it in the rare cases in which it is indicated even those of pit ents un her it's years of age be

cause of its excellent result

The moulding operation after transverse osteo tomy combined with the formation of a cup-shape I or transvers groo e in one bone call int which the other bone I cmbellel pre ents sliling an I over riding of the fragments

WALTER C BURETT M D

Be ancon Well and Wilman Netter Con r rhoes! Arthritis and Artirotoms (Vib 1 ble no tog 40 t 11 t m) Bull 1 mem 5 med d hSp d P 10 3 3 x 50

In the treatment of purulent arthritis of th Ances togo blatteral arthrotoms income activating fo thet p of the space under the qual ceps to the low the level of the p of a tree essential. When in a mple cases compared to the low the space under the qual ceps to the low to the space of the

containing polynuclear cell but no bacteria and will out a general reaction heal n usually occurs following reperted puncture active molylut type should be before immediately

continued and pu hed to the maximum excu s on of movement. In order to prevent mu cular atrophy high makes movement impossible or insufficient the

rations must not be flowed t remain mactive. The purpo e of the movem at is to empty the a at by expres on In the kn there is a pare betwen th articular ends of the bon s and an ther unler the qualre eps During pa is e extension and flexion the articular surfaces glide over one another and the and contents pass from on space to the other as well as to and the outlet With active movement the s moved surfaces are kert int mately in contact is muscular contra tion an I the contents cannot be reflecte lir m one p tof the articulat on to ar ther lut go to sard the outlet As muscular contraction lies not relax during acts of xion and extension ther is a certain fixity if the 10 nt which prevents pain During pa 1 e n of dization p un is caused b deviate a f the axi f movement fas ve and mi ed movements se contra indi t d In im mobilization perf t drunage is impo sible muscular atrophy rapidly app ars the 1 int b comes inse cure and the lex t movement i extends n of al In the cas of a ; int that h s alrea ly been treat d by other method acts e mol I zat on should not be att mr ted

If in the ourse of act i mob lization the patent suddenly refu es to make if ither mo, ments be cau cof p n an sam nation shoull be made! r pus retention were little pu my au e pan I freten tion is f und, the i und edge shull be trimmel the partialls do d inci tone ! g d in lim frequent and compl t m ment mad. The author has never! set cied the kare no eemely ups, mobils

I attents with the same leasons any geatly Sime vill rea high and p omptly cont a their fleton a detension mustles. Of their ser ethal tempts to intact If the legitude of the market and must be lucat I patie till, an I watch donstantly until the necessity coint cloud can be made if over even if the patient contour house the joint will be the patient of the many the stight, often obtained will lead to head age by inch by a surferior to the accomplished of the patients of the stight of the patients of the stight, and the patients of the stight of of the s

The nature of the major g mbc is not 1 ton to the 1 d cat ons f the method a d influence 3 o by the du ation of the suppuration. In diplo coccus infection recovers a more r p d than in fit ons due to othe progene b ter. Staphilococcus and streptococcus infection pers st for a 1 e time.

The method d s ribed is apple ble to purulent a thritis with b ne le 10 s. By placing the petient in an extension appearatus and continuous methods.

the author has obtained perfect healing in cases complicated by fracture of the patella and in a consider able number of cases of other fractures with at times severe displacement

In cases with marked effusion repeated puncture

and mobilization effect complete functional recovery.

Bier s by peræmia is a useful adjunct.

In the plastic type of arthritis with peri articular infiltration and rapid anky losis the best treatment is arthrotomy cleansing of the joint closure without drainage and active mobilization.

In true suppurati e arthrit s the treatment i a long blateral arthrotomy, left open and immediate continuous active mobilization pushed to the limit whatever the infecting organism. In all cases an equility complete healing results. The method car ried out properly has no contra indications and even in unfavorable cases gives results which far surpass those of older methods.

The author does not favor cleansing with ether and never makes inject ons into suppurating joints WALTER C BUR ET M D

Regard G 1 The Treatment of Localized Paraly sis by the G afting of Dead Tendons (Trat me t des pa lyses d finit es pr la grife d t d s

m t) Rev m d d l S s om 9 3 xl 1 364

From a number of animal experiments the author

r aches the follo ing conclusion
r Dead tendon grafts in healthy ti sues become

revived whatever the length

2 The revival of de, tendon grafts: always
ripid in the two ends where they are in contact
with normal tendon it sue. In connective terms

with normal tendon to sue. In connective tissue revival by the lateral route is always sufficient and is complete at the end of two or three months.

3 Very long grafts may give perfect results but

a continuous bed must be created for the tendon
4 The best bed is made in direct contact with
the aponeuroses with the aid of the aponeuroses
and the connect ve tissue covering them

5 Grafts of dead tendon like all grafts must funct on therefore mobilizat on should be insti-

tuted from the very first

6 The grait of dead tendon permits the use of
distant muscles the action of which is synergic

with that of the paralyzed muscles
7 Grafting of dead tendon may be substituted for prosthetic appliances

8 This methol is preferable to tendon trans plantations which do not allow the co rect employ ment of synergic muscles W A BRENN N

Fra e J Th Paraly is of Potts D case and an Operation f r Its Relief Ed l gh 11 J 1923

The development of paralys s in association with tuberculous d ease of the spine 1 a most distressing complication. The complication arrests the usual course of recovery it necessitates prolongation of the aller by burdensome recumbency and in spite

of treatment it may progress to the stage of irrecoverable degeneration of the spinal cord and a

permanent flaccid paralysis

Figermentally and clinically it has been demon strated that simple angulation of the spinal cord is not the primary cause of the piralysis. The in fluence which induces the change is a localized pressure exerted upon the cord from without and is most frequent in the upper dorsal spine where the lumen of the vertebral canal, narrowest.

issuem of the vertectors can in narrowest of the Action of the most position of the menungeal characteristic of tuberculous lessons. The result of the menungeal changes is that the apinal cord suffers a slow compression. These various changes are consistently most marked in the spinal level pust above the zone of compression. It has been the author a practice to give simple conservative treatment—absolute rest in the horizontal position combined with moderate hyperteritanson and if necessary with moderate hyperteritanson and if necessary the procedure of the present of the pr

With the patient in a prone position a vertical curved incision is made in the long axis of the spine curved incision is made in the long axis of the spine over the area of the Lyphosis. The longitudinal groups of muscles are separated from expension of the spine so as to expose the posterior surface of the lamina for the earther of two lamina above and two below the site of the vertebral disease with a specially designed laminotomy forcepts the laminar are divided close to their attachments to the transverse processes. Immediately above the high est point of divi ion and immediately below the longest point the interspinous lagiancies are severed Nothing is removed but the laminar division per must a slight backward displacement of the seg

ments The wound is closed without drainage. Immediately after the operation the patient is placed in the prone position. After the wound has healed he is placed in the dorsal position upon a curved Whitman frame with an obling ring of felt under the site of operation. This position is main tained for a period of six months.

Improvement is apparent within a few days after the operation Voluntary movement gradually returns and in a surprisingly short time the limbs are capable of a normal range of motion. If care is exercised in the postoperative re-umbency the

recovery is complete and permanent

The author reports the cases of four children from to 10 years of age in which the operation was successful. In one case honever a temporary re laws occurred because of inadequate postoperative case. R. C. LONREAN M.D.

David S D Experimental Incis on of the Cadaver for Drainage of the Ankle Joint J B: & Jo: 1 S g: 1923 v: 480

In research work upon cadavers glycerine was used for injection of the joint and methylene blue for a coloring substance Through the antero external incis on the largest amount of injected material was executed with the foot in 11 ntar flexion. Some of the fluid remained in the posterior compartment.

An antero internal inci ion mives les room an l is apt to injure vital structures

The anterior me lian inci ion crosses the neck of the astragalus and the extensor tendons of the toes and foot With the foot plantar ff ved the injected ff it was found in the lateral unsupported portions

of the anterior lig ment. This route app ars dan gerous. In the postero-internal incision many important

structures are en langere 1

The postero-external inci ion is reliable an I safe cross was mple and ensy Lever, drop of lind was exacusted with the foot dorsif sed. The inci ion is made in the postero-external aspect of it joint is cm. me lial to the tende actulit, beginning s.m. above the external malleolus and exit. Ing down to the os calcis following the anterior bor fer for it for mile and the malleolus and exit. In down to the os calcis following the anterior bor fer for it for mile mile and mile the mile of the mile of the joint formation.

FRACTURES AND DISLOCATIONS

Rocher II L Four Ca es of Fractu e of the External Condyle of the Humerus Reportion of Removal? (\psi p \times 1 qut c \times 1 fractu du d\times t h m(\times 1) Rev d H p I 19 3 xx 3

In three of the cases reported the cond le was re pl ed. In the four th which came for treatment late the 1 placed conds! was r moved. From stat the Roche concludes that superanondalar fractures constitute 44 per cent and e ternal conds!e fractures 31 per cent of fractures of the lower end of the humerus in chil iten. The west usually indirect volorice tearing of the bon b the ert rial capsular hamment fro tr man treaby the head of the rindirect or force exerted on the condvil by the objectation

hen the for rm 1 hyperextend L

Thre types of the fracture are listinguing hid true for ture exployed less as a strong and fracture of the lower end of the him rus involving more than the

coril a a

The first type 1 th most important from the surgic 1 won it. The feet up pl e is oblique lown a 1 dins rd beginning at the edge of the himmerus in 1 trimin tig in the trochler if su. The firg mint in lope 1 douts rd or 1 nan lout with the first ment in the information behind the humerus. Bing trach distributions of the himmerus is most possible to the surgice of t

True et ph seal seption is chacterized to the paton through that a tiling plit a utility with out much digit em nt In may future of ing the oni i the fragmint tid nwird name along the properties.

In hilen in firtshullbem de to feet report n with toper t. The can be n flib I all nirge t withes aniw this use fith thurposcope When the fagmint is wells diglaced an I rotat d'and the soft parts are s' nandecchi motic operation houl I be done. This per mits easy and sur reposition without a lling unnue e sair traitma.

After many ulstoon had failed in the author a finite two cases he p iformed an open ope at on fixe a! eight days lat r. In the third ca e in which many lation was not attempted to operate in was die een the the eighth day after injury. I refer results we too lained. In the fourth ca e which was a menth oil the fragment it is remove. If the knocker a living to the injury is the injury of the

The condyle is exposed by a lateral incident is periosical attrahments being preserved. Meeting of the fracture surfaces the bone is replaced. Rocher prefers not to use internal splints is to as

Rocher pref is not to u e intern I splints a chas nory pegs rilving on etternal splinting. I the fit two ci is the elbo was immobilized in est in in and in the third case in fit in of 75 degrees. The immobilization was continued for ten days.

Removal of the fragment lea 's a m valle v t stable joint but hould be revised for old case Kell C See w M.D.

Speed k Compression Fracture of tl Dorsotumber v riebre Path logy and T tm st S t Cl V Am 923 1 1 83

Spee I states that all compres ion fractures are caused by an exaggerati n of the normal curv s of the pine lu to hyp il von In compres i n frac tu s of the vertel r I bodies associated with d placem nt the upper fragment mo es I rward a d s m tim later lly as well and the upper s gment of the spine is d pl ced for arl with it. If pressure of the bene affects the cord pres are near 19 The pressure of th an I hæmorrhage f !lo hæmorrh ge m) I al to the d ath of axis cal niers or f cell in the anteri r horn When nerve cells and are cylinders re distroy ditheir regenerat in within the ord probably n s r occurs but if the r lef of compressio due t hemorrhage or exulate 1 not too long d layed the fun tion of the nerve fibers may be restored

nuers may be restore

The ngularity of the pine in comple tures a incr ed by slacke ing of th I gaments ny red Cha ges occur in the mu cles and the tl id randr ctum be om p al zel The author stat s th t no matter how e i lent th symptoms mplete co I se e ance the p tient should alwa t be gien th ben fit of the loubt n d i g peri t ni r decompression of the c rd 10 ns pro educe m I alpt d ith ting sing the perm at I mage the rice last opening (the las th crd my be nasd in it 1 gtuln 1 a It I mae of blood and eff in The lam nest me must be carri I will beyon I the les on in the r f u tixue andt ny pines C nit nt rare of the ur st tine sar t coring to o e f the pol es most g ally i pt i the bid't It dit duntilit a besth pentat whi o flow begin the ugh the fir its ope in th phacte 11b ujegte gresure Th

may be increased by gently stroking the inner side of the thighs

According to the other common policy early catheterization is done possibly a few hours after the accident When cystitis develop catheteriza

tion should be abandone l Cystoscopy 1 contra and cated as it may set up other foct of infection Cystotomy may be of aid For the paralysis of the extremities daily massage with mov ment of all joints in the paralyzed area is and cated A plaster of lara corset should be applied to support the spine Sometimes spinal fi ation by a bone g aft may be best

Two cases are reported with complete autonsy find ags and the article is illustrated with two photomicrograph S C WOLDENBER M D

Cottalorda J Experimental Stud e on Fractures of th Acetabulum (R h hes the ime t less par (cem t d la té c tyl de) lsfr t Ly ch 0.3

The author stud ed the mechanism of production of fractures of the acetabulum due to a direct cause A direct cause is a force applied directly through the head and neck of the femur The force was applied by a blo with a large wooden block i hich engaged the surface of the upper en l of the femur over the la gest po sible su face. When the subject is in the prope position fracture may be produced easily by an even elati ely slight fall or blow. The subjects were cadavers of well nours hed men between 20 and 45 years of age who die I from some acute cond tion. They were laid on the side opposite that upon which fracture was desired and held by an assistant in orde to conserve the elastic cushion of the muscle m sses

Fractur by bursting of the acetabulum was produce I by a force directed obliquely downward in ward and slightly backward at plied upon the ent e external surface of the upper end of the femur with the limb in extension force I internal rotation and a nos tion inte mediate between abduction and adduction which bri gs the femoral head into contact with the fo sa of the acetabulum. The mixi mum contact between the two surfaces was estab I shed by forced internal rot tion

The four resulting anatomico pathological types of

f acture from a dir ct cause were

Fracture by detachment in which the fossa was entirely detached from the crescentic art cular cartilage of the ac tabulum and broken into two nearly equal fragments. The displacem nt was toward the pel 1 and lifted the obturator essels and nerve which could be seen through the line of fracture The cond tion showed the possibil ty of obturator neuralgias immediate or late that are f eq ently suggested by the symptoms and sequelze of fractu es of th acet bulum

2 Rectil near fracture into two fragments in which the principal I ne of t acture was tangential to the uppe border I the fo sa A I shap d frac ture extend d from the principal line to the upp r

brim of the acetabulum. In some cases the V shaped fragment was turned toward the pulve

The clas ical fracture into three fragments in which the lines of fracture in the fossa seemed to rento luce well the fetal position of the 1 cartilage of the acetabulum

Star shaped fracture into four fragments in which four lines radiating from the center diverged respectively toward the upper border of the ischio tubic inci ute the antero inferior iliac spine the ischium and the upper border of the great sciatio notch Of the four fragments two were that one was pubic and one wa ischial

WALTER C BURKET M D

Mathieu P A Malunited Subtrochanteric Frac ture of the Femur Treated by Oblique Osteo tomy with Extension n Flexion and Abduction (O té tom obl que su d'in ion n fler n et bducti n pour fr t re ous t ha té du fêm vici u ment nsol dée) Bill et ném Soc d'à de Pa 1923 xli 671

A q year old child with a malunited subtrochin teric fracture of the right femur had a pronounced hmp and marked antero external bowing of the upper end of the femur The author performed an oblique subtrochanteric esteotomy to make flevion possible To obtain abduction it was necessary to trim the tap ring end of the lower fragment. This transformed the oblique into a cuneiform estectomy with the base outward. Extens on in flexion and abduction was maintained by means of suspension apparatus Satisfactor unatomical and functional recovery resulted WALTER C BURKET M D

Estes W L Jr Fra Fractures Near the Ankle 502

The author divides fractures near the ankle into supramalleolar separation of the lower epiphysis and the tibia and fibula and fractures involving the ankle joint-anatomically fractures of the malleoli and lot er ends of the tibia and f bula On the basi of the mechani m by which they are produced ankle joint fractures are classified as abduction fractures external rotation fractures adduction fractures flexion fractures extension fractures and compress on fractures

In abduction fractures the internal malleolus is torn near its tip or center or less commonly the nternal lateral ligament 1 ruptured the malleoli remaining intact. If the force continues, the inferior t biof bular I gament is ruptured and diastasi of the tibia and fibula results. If the ligament holds the external malleolus will be fractured. Abduction fractures of the first degree are fractures of the in te nal malleolus alone Those of the second degree are fractures of the internal malleolus or rupture of the internal lateral ligament with fracture of the external malleolus or the shaft of the fibula with or without diastas of the inferior tib ofibular articulation Tho e of the third degree are frac tures of the internal malleolus or rupture of the internal I gament with fracture of the external mallecture or the shaft of the fibula with or without diastass; of the tibofibular articulation or fractures of the e ternal surfac of the tibia and lateral displacement or dislocation of the astragulys

Extern I rotation frectures of the first degree are oblique fractures of the lower end of the fibula. Those of the second legree are oblique fractures of the Ibula. This with fracture of the internal maileolus or ruptur of the internal maileolus or ruptur of the internal lateral lagment with or without fracture of the posterior margin of the thin and the fibular may be supported by with data from the fibular may be supported by with data from the fibular may be supported by the fibular may be supported by

of the astr galus
Adduction fractures are classified as follows
first degree tr ns rse fracture of the external
malle lus second degree longitudinal fracture of
the internal mall olus near the base and fracture

of the external m lleolus

Intern I rotat on fractures have not been recognized a distinct from adduction fractures

Frien ion fractures are rare from extension is

Present in many external rotation fractures
Flexion fra tures are all o rare Isolated fractur's

of the anterior marg n of the tibia are probably the only recorded fractures of flex on Fractures of compress on may be marginal frac

tures or T or 1 fractures

Fracture of the posterior mar, n on the lower end of the tibu vs common in asso inton with other les on Isolated fracture of the lower posterior tibial margin is comparatively are but twenty-seven cases have leen reported. The cause is usually force exerted from below upward the foot being in plantar flexion or extension. A possitive diagnosis

can be mad only from the rocntgenogram \ \ cast should be applied with the foot in an over corrected postion and dors \ \ \extrm{lex on}

JOHN MITCHELL M D

ORTHOPEDICS IN GENERAL.

Sayre R II Errors in Orthopedic Diagno is J Io- a State M Soc 1923 x n 33

In lateral curvature of the si me the angulation of the ribs re ulting from the rotat on is often mistaken for the gibbus of tuberculosis and an ancursin which has croded the vertebres may cause a knuckle

and symptoms suggesting Forts affacase. A common mistake is the diagnosis of torticolias as arthritis of the c. rical spine. In the latter could not the heal issually looks down instea to dip and there is difficulty in opening the jaws. Other charterst es include the attitude of holding the heal creates and include the attitude of holding the heal charter of the properties of the heal country of the properties of the head of the properties of the head of the properties of the head of turning or on the side.

In disease of the dorso I inhar vertebra the head is often thrown back to transfer the weight of the upper p rt of the body from the anterior portion of the vertebra. These cases are sometimes thought

to be torticall s

Undoubtedly the greatest error occurs in the differentiation of low back pain due to Pott s ds as inflammation of the sacro il ac and lumbo-scrib articulations from disorders of the female genito unnary system. Sayre reports a ca e in which after several years of treatment for Potts disease an operation for ventrollerion of the uterus resulted in a complete cur.

At times it is difficult to tell whether a patera with the right thigh flere to in the abdome with it ense pain and an elevated temperature is suffixing from appendicts a possi abscess or acute in appendicts to the sufficient appendict is the history should help. If the lay is not involve it will be po shibt to obtain movement in the joint. Within the sufficient is discussed but a carefully taken he try and physical and Naray caramitous should lead to correct days and the sufficient in the suf

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Jean G Traumatic Direct Suh utaneous Ruptures of the Common and External II ac Arter es (Ruptures trum tiques ou utanées de etcs des tères shan es pout es et et en s) J de lir ou sur son

Traumatic ruptures of the common and external iline arteries without a lesson of the abdominal wall or peritoneum or a fracture of the pelvis are rare Only six cases have been found in the literature the

author s case malang seven

The cause is a wolent abdominal trauma such as
that cused by a fall or the ki k of a horse. The
mechanism of the rupture is the crushing of the
vessel between the comp essing agent and the wall
of the bony pelvs. The arteries are separated from
the bone only by the fibers of the proofs muscle and
are held in Jitee by a fold of the iliac friscan which
prevents their diplacement by external force from
which the other ab lominal organs may post
scape. Torsion and elongation are not considered
causes

causes the spons vary with the d gree and direction of the woldene. There may be any degree of containing the woldene. There may be any degree of the summa close of the numma and media or of all coats. The level of the lesson may be high on the common iliact of low on the external than. The year all on may be injured but no artenox enous aneurism of this area is known.

The symptoms vary with the degree of rupture of the vitted a covit. When media and ustima are torm retrivation and rolling up occur and thrombosis is i visible. Signs of ichram, in the leg develop. The artery may r pure late. When all three costs are torn an enormous harmatomar r pidly appears which spreads from the pelvis to the dyntrs in the sixtee the contral period of the property of the cost of

The prognosis is very gra e In seven known cases there was only one survival. Death may be led yed from one to the ee weeks and is preceded by gangrene of the leg.

Operation is indicated imperatively as soon as the condition in suspected If there is contusion without rupture the thombas if recent should be removed by arter tomy and the should be followed by ligation of both end of the ves. I. When all the ecoals are rupture dip on ional harmo tass hould be attempted and it externed are inforshoot. Later a large laparations opening should be mide and the artery sutured or ligated. In the authors are sale ligation was done because of the difficulty of suture through the contused tissues of the artery sutured of the artery sutured of the artery of the artery of the suture of the suture of the artery sutured of the artery of the a

In connection with the report of the author's case the six cases found in the literature are reviewed briefly Kelloge Speed M D

Leriche R. The Surgical Treatment of the Remote Consequences of Phlebitis of the Leg (E sa de trat ment chu a greal des suites folonfees d phl b tes du membre infér u) Pe se m d 1 r 1923

Little is known with regard to the prognosis of phlebits in the lower extremity. In some cases of phlepmass alba dol in the late results are poor while in others there is very little functional loss. While the cause of these differences has not been established it occurred to Lertsche that as sympather tensil obstruction it might all o relieve venous obstruction due to inflammation.

Recently he had an opportunity to test thi theory in the case of a 26 year old man who at the age of 11 suffered an attack of typhoil com plicated by phlebitis on the left side which per sisted for two months. After a year subpubic vances appeared but in 1014 the patient was ac cepted for the army and served through the war After he discharge from the army in 1010 when he walked a great deal his left leg at times seemed very heavy. In May 10 2 while walking his left leg gave way and he fell Thereafter he was kent in bed for one month. The leg showed no cedema but often became cramped. For two months the leg was again normal but at the end of that time the pair recurred and the leg again became func tionless

The patient wa a vigorous man in spite of recent alcohol m and synhuis for which he hal had the u ual treatment. The finding of the general physical extimation were negative except for abdominal varices on both sides and varicoccle. The left leg showed no oxdema or nerve disturbances but the calf measured 3 cm and the thigh 1 cm more in circumference than the night.

In September 1922 under spinal anasthesis the great vessles of the thigh were exposed for a distance of 15 cm below Scarpas transfe. In the cellular its use my abnormal venns were discovered. The arter, was isolate I and was found to be contacted. Its call bet became greatly diminished after contact with an instrument even before sympather contact with an instrument even before sympather compared. The venn which was closely adherent to the arter, vas separated only with off culty. If appeared very small flattened and empty down to a point where there was a valve a few centimeters above the kine. Below that point the ven was of normal cabber. The tissue about the femoral ven seemed thick and hard with femoral ven seemed thick and hard with the contact of the con

34

Lenche co lules that there was a true local bliter to n f the femoral or pot | teal sein and that the posterior consicurned prictically all the r turn the anterior v ins n t fun tinning

I sympathectems of the arters was performed an I about 2 m of the f mor I sem was rescret A ligature w needed to contrib amorrhig Who the patient g t up on the tenth I s there wa no a fema of the lg \ month an la half later altho h h h l walk lagr t i al the leg h wel no al norm lits. I ur month lat r at wa tll ith ut a lema or pain. The 1 i minal ances remaine la befor

The rem sed ects n of th in stu! I mier >conically seem I to have I to its ven u char c tenstics with ut h ving still n I like an art ry There wis no trice I nthimm ti a ant the end thelium is normal. Most I the muscul r wall hall appear lan! reglaced by the u elist tı u

He auth rurges ar ful stuly fall olders ef philit t I tims whether ther s I scal ntition fth cin h h may be tel sells smtatheet my n! en s resection

LFII S rrn MD

Patel A Jugulo-Carotid Arteriose ou Aneuri m of th B se of th Skull Operated upon in 1915 té ~ vincu j gul 1 set 1 yele 9 51 L

The author port a ac of arters eno an uri mill wing yound f the cir til eln r pen trate I from behin I the most 11 p oc shell frag nent w itu tel t th right > the m i line anterior to the atl The injury as receil! in August 1914

At operation in April of the right later lan was p kel through th mat il out the greatly blated internal | gul in 1 the nm n cetiliuster umalt it lifure tion we lest ! in the eck in i the hill fr gn nt w s r m el The imn h te result of the per tim were good the ph cal nisulje to ph non na t appea el and the patint r t m lt clive 1 In >

vertig and general milital net

Re-e amin tion win and hilly its after the peratura lo la liffue tuni ti ith ght half of the five ee bling large goma merk i lilatati n of the ein fith angle f the jiw it lik n th forche I a II ge pulating en sul max flary egio with blow of 1st he te i fe tin The pati t omplained f f lag of hea essin the heat nitrinity one ti The blotn riniat | 1 kg in th at ten lay tem The tern lar tim timelth itr cranil ir ultion I at it islbl ad into all the banche f the int a laugul betwen the I gat res The suth cons les that leaten fth ten l

carotil d pe iph r l v nous b anch altho gh

I wening the sa cular phenom na is n t without lang r to the cerebral circulat on

On the 12 of Re Is an I Halste Is Inding that card raths rapelly filling man caroud anen ri m Lenche a lissed operation in latel's case in p te of the operati e difficulti s

If rar I reported a case of artenoven us are rism of it internal ju ular an lexternal and internal c retalen ar the congin which was first treated by I t n of the common carotif and the intern ! Jugalar Several month later follows g an elfont the signs of arterios nous angum in recurred 5 b equently Il rar | h te | all tributary a seels and extirpated the sac WALTER C BERKET MD

Birt F Tran plant ti n of Blood Vessel (Beits u ffeet plit 1 Delb 21 b 1 o t it 250

Ancur ms are common in China because of the wile pread d mination of syphilis In a c se te extell) But an neur m of the politeal sten ! I pel to itr vim tel the size of an appl ithin ten month. The art ro wa re ect d for a I t nce fal ut agem tog ther with a piece of the er and the arterral lef et overe i by fre tran-

glantati n fr m th agheno s in The techn q of suturing a h n in two Letches Th sutur Inc was emball I in the muscul to e limin healing follow i The rter I circulation r maine? imp ire! Mer i w k wh n the pati at lit

his bed a lists of pul e was palp ble in the trans plant

Mot O Perm r II II ad Cuthri C C. Ind Result f Art Lal Tran plant 110 116 3 5

The aut transplantation fan artery to an artery ty em al f gment i primpt suture gi es ex ellent r sult i fte a f ww ks m q hol ge i tient t at no lift ult an i h t ! great! the struc s that f th ungraft d es ch ture 1 th

Ih agt tan tlant ta 1 in to I at larg m nt w th fl rous thicken ig f the llanlth l pe e of the muse e The fort in lrult ar govi.

Th perman till ten fhirge u and 1 at 1 t gaft 1 to polifr tion of th ing a culr and th! m and connective to ut f th h t l tors for ori g ir) fe it n m s be ht isonait i m tofthe egm th the loo i r t ntlt att n ith blood pl ma bef re end the bling had elped Vital zat not

th tulet he fl 1 () r surfac g f the luren then loth lumg a g from the cut ends of the garter (hhm a u n fo ta ght h s) () th l q nt l v l pm nt f s ib ndoth | | nn t t u and (3) the 1 postion of fb bo t th g ft nd stim late n f the conn c t tul th gaft cling a for ign b dy

M lt u ntrprolu i Ht g nou o i it i elimplants when serv

g the purp for more then four t six ceks

suffer more or le s fu isorm aneurismal dilatation with consequent d nger of secondary thrombosi The dilatation results from the loss of muscle ti suc and of most of the clastic fibers. The d gree of the dilatation i determined by the equil brium between the resi tance of the newly forme! tube and the blood pressure The original g aft d integrate and is slowly absorbe i Calcareous degeneration may occur its amount dep inding upon the rate of absorp tion of d fferent kinds of s gments Small islets of osteo: I ti sue or cartilage may lie between calcareous deposits and surrounding granulation tissue The transplant serves as a temporary conduit and frame wo k unt lit is more or les replaced by a permanent hving stru ture by the ti sue of the host Llastic

nd connective tissues resist dissolution longest Formaldehyde fixed and vasel ne impregnated seg ments reta a their shape and structure longer than segments that are untreated or kept in salt solution or bloo! The insolubility has the advantage that it does not give ay during the re establi hment of the new essel but has all o the d ad antage that it n tyell adapted to the gro ing tissues Collagen fies of the transplant lend their substance to the recon truction of new fibers and may become at

lea t temporardy welded R frige ator preserved transplants ar deal and

the efore their course is I ke that of other devit I ze I The chang a are directly propo tionate to the time since the of eration and the time the tis ue

was kent n c ld storage

In contrast to venous segments arterial segments sho little dilatation. Both are re nforced by encapsulat ng connective tissue. The final functional results of vasc lar tran plants I ving or dead homo togous or heterologous are ve y similar. Glass and mit ilic tub s are of doubtful permanent value bcc use the tissues never permanently weld them and there is danger of secondary hemorrhage from loos ning of the surrounding inflammatory tissue

The autho report in d tail the transplantation of a rabbts ao ta to a logs ommon carotid. The aorta was smaller than the carot d After o e month it was the same size. After seven mo the it sho ed a fusif rm d latat on to a greater size than that of th caroti I and its wall were rregularly thickened with s conda v s cculat ons an l calca eous deposts The anastomotic juncture sho ed an n ular thick ening Histologic examination revealed an endothel ial I ming urround d by Iam nated fibrous ti sie ity is in the center f v hich was the homogeneous remains of the t in plant. No muscle fibers vere The tra spla t had been invaded by the connective to sue of the host and absorption and calcareous deg erat on were in progre s The host had uppled the nev to sue which clothed the ab o bing transplant ithin and ithout

The art cle c nta as al o the report of the t ans pl ntat on of a de stal ed formaldehy de fixed na cava of one d g tato the common carotid of another The vein had been preserved for sixty days in 2 5 pe cent formal a solution. The day pre

ceding the operation the vein was washed in dilute ammonia dehydrated in absolute alcohol and impregnated with paraffin oil When the circulation was established its diameter was greater than that of the carotid artery The pulse of both carotids remained the same One month later when the transplant was exposed it showed patency and marke I dilutation. After the dog had led an active life of eleven year during a high time two litters of pups were ru ed and several were whelped at died from sarcoma of the sternum which had formed

generalized metastases The tran plant and nev wall were patent and formed a fusiform aneurismal sac a large part of which was occupied by a recent dark red clot with a channel alongside corresponding in size to the lumen of the carotid Within the clot vas embolic sarcomatous tissue similar to the growth on the sternum. The segment was lengthened. The inner surface vas covered with endothelium from the host except on the side occupied by the clot. The remains of the transplant (dead connective ti sue partiall destroyed elastic fibers and calcareous degeneration) vere surrounded within an I without by new fibrous to sue from the host Band like folds of connective tissue projected into the lumen. The curoted artery above and below the graft was nor mal The incomplete thrombus was due probably in part to the succulation and the slowing of the cir culation before death WALTER C BURKET M D

BLOOD AND TRANSFUSION

Stud es in Exhaustion V Hæmor Crite G W rhage 1 h S g 19 3 1 154

Crile's stud es on the effects of hamorrhage with out trauma date back to 1904. In his earlier experi

ments he attempted to discover the limits of com pensatory recovery after hamorrhage by determin ing the level to which the blood pressure could be reduced without affecting the functioning of the circulatory system. His findings were as follows

The greatest fall in the blood pressure after a rapid hæmorrhage occu red when approximately one third of the blood was removed and was irreg ular In slov hæmorrhage the pressure fall was more regular

2 In death after hamorrhage the respiratory center was the first to fail

After a hamorrhage amounting to approxi mately 60 per cent of the total amount of blood spontaneous compensation sometimes brought the blood pressur back to a level at which life could be maintained

4 The degree of activity of the vasomotor center seemed to regulate the power of compensation after the hæmorrhage

5 Respirato y inhibition was produced by ma n pulation of the larynx after severe hæmorrhage but this did not affect the blood pressure

6 It was impossible to determine accurately the amount of blood that can be lost in proportion to the body weight before the power of compensation is lost

7 Animals previously exhausted by trauma malnutrition or disease lost the power of compensa

tion after harmorrhage earlier than normal animals. The histologic changes noted in the brain cord liver and suprarenals in exhaustion from harmorrhage are the same as those discovered after physical traums. Crite like Canoni found that harmorrhage.

causes increased activity of the suprarenals. The hydrogen ion concentration of the blood after acute hemorrhage i reduced. The imme late effect of an acute hemorrhage on the cartylovascular system is stimulation to compensatory activity immediately after a hemorrhage the brain shows an uncrease in function active cells and temperature if the hemorrhage is prolonged or repeated this

activity gradually declines and there is evidence of fatigue. The effects of harmorthige on the liver and supra renals are similar to its effects on the brain. Fxper mental and clinical harmorthage cause the same

effects as those een in physical trauma and other

conditions of exhaustion a weak subject may be a slight hemorrhage in a weak subject may be more serious than a severe hemorrhage in a robust subject. The old saying that a certain priportion of the blood can be lost without serious results is

not alw ys true

The illustrations in the article show the laboratory
and chinical findings mentioned and are of unusual
interest

Ha ond M C are M D

Brill N E and R enthal N The Curati e Treatment I Splenect my of Chronic Throm bocytopenic Purpura lizemorrhagica im J 11 S 9 3 1 50

We lhof's disease chronic thrombocytopenic pur purs atmorrhage as an affection with an acute a subacute or a chronic course and having definite characteristics which distinguish it from the other purpurus. In the past the subacute and chronic varieties we el equently fatal and it is in these case that splenectomy has proved benefic al. The autho's

describe the symptoms in detail

"Spleacetomy ws done a two cases in the ha
fatal termination was rapidly approaching. One of
in patients a sperif and headers by Dothwer
describes and had develop if the condition in child
describes and had develop if the condition in child
had one at the fifth and the other at the leventh
year of if Both had been subjected to eryknown
method of treatment to stop the bleeding and had
been absolutely incapacitated for se eral years. A
most intense avenus was present the harmoplobin
was below no and the ed blood cells inmovered about
entities and the book three.

The results of splenectomy vere br ll ant. In both cases the bleeding has been entirely stopped and the ptints color has returned. In the gulf the hamoglobin is 90 and the crythrocyte count 5 00000 in

the boy the hamoglobin is 80 and the crythrocite count 4 816 000. The patients are now able to walk whereas previously they had b en hed idden and their mental outlook is normal.

In order to offset the orang of blood which occurs from all cut and exposed surfaces during the sphere tomy the patient should be given a transfu ion immediately before the operation and in o der to over come shock another transfus on should be given after the operation.

Bleeding from the mucous surfaces ceases a few minutes after the removal of the spleen and the bleeding time at once returns to normal

In conclusion the authors state that they fel justified in assuming that in chronic thrombory topchic purput a plenectiony is a life saving meas ure and should as such be employed in all parties cases. There is considerable evidence to indicate that it is all o curative. In Kaznelson s first case there has been no recurrence of the disease in a period

of over fi e vears It appears that thrombocytopenic purpura is a condition in olving the reticulo-endothelial system chiefly the spleen and bone marrow. This assump tion appears to b confirmed by the fact that the spleen of the g rl who e case is reported was large s eighing 1 400 gm and on microscop c examination showed a large in rease in the number of eticular cells The boy s spleen although considerably larger than normal weighing 340 gm did not show nearly as marked an increase in these elements. Both these patients seem to be entirely cured. It is poss ble that the larger the amount of reticulo-endothelial struc ture removed the better th result. If this is true splenectomy may be expected to give mo e favorable results when the spleen is very la ge than when it is small CARL R STEINER M D

Stuber B and S no M Experimental and Collod Chemical Studies on the Nature of the Congul tion of the Blood (Experiment) work ked declares to turn uchu en be das Weed d Bl try mans g) Verh di d d is h G ill h f i M d 93 39

Th attempted explanations of the nature of the congulation of blood may be divided into two distances the first comprising those based on the fermenties antire of the congulation processes the se ond these based o the pulley physico chemical nature of the cost later studies as a case of the pulley physico chemical view. These processes Later studies has a caused the uthors to forsake the fermential view.

In the experiments reported fibrino en and throm bin were used the solutions bein separated by a sem permeable in infrant. Coag lation resulted. The fact that thrombin causes coag! I tion by with draw g w ter! om the fibrino en proves the throbin so ta fermen

The acts n of thomb kinase 1 dependent upon su fa eacts substa es nd an optim i hydroge ion once trat on The laws of collo dat ch m ry govern its activity. It is not a ferment The incognilability of oxilated blood and citrated blood which has been attributed to the precipation of calcium as insoluble calcium oxilate is due to the formation of an ionized and hence incognilable complex union of fibrinogen and salt. Calcium is not essential for congulation. It has only the general importance of builent cations which have the pre-printing of colloids.

Schulhof O The Effect of the \ Rays upon the Coagulat on of the Blood (Wirk g der R ent g strahl n auf de Blutkoagul tio) Goggds at

In persons who sho sed no tend ncy to have orrhage Schuliot tested the coaquilability of the blood and serum previous to and es heen hours after contigen irra lation of the spleen the popitical and cervical lymph nodes a substernal goiter and the lungs. He determined the thrompins and fibrin open content by the Wollgemuth ferment method Stephan as supprison that irradiation of the spleen stimulates the returnle endothelial dis setting and considerability of the spleen stimulates the production of ferment was not conferenced.

Schulhof seeks the cause of the coagulation of blood in the products of cellular catabolism acting either directly as cataly its subst nees or and rectly as parenterally incorporated albuminous substances

TREENARY (G)

LYMPH VESSELS AND GLANDS

Descomps P and Turnesco D The Lymphatic Ves els and Glands of the Jejunum and Ileum (L s a lymph tiques du jéju unt t d l lé n) B l i mém Soc d ch d Pa 913 xl 78t

In a study of the Iymphatus of the japunum and leum in this five needs on Indiast and fen adults the authors found that the essels of the former are derived from an area situated above the discreticulum of the umblical loop of which Meckel di criticulum is the acconstant remnant while those of the latter area in an each below the d'eticulum From the vewpoint of vascular zation therefore the jejunum and lieum mu to be conside ed as separat.

N A BRETT

G ger L T Lymphatic Obstruction N n Pa a sitic Flephanti 1 4m J M S 9 3 1 1

Edema due to non parastite l'imphatic obstruction has been called chron terophodems adema dystroph que elephantoid ademn and non parasti e clephantas s'il occur in non tropical chimates and is charact rized by a slow natory and a chronic pa nless non inflam matory met and a chronic pa nless non inflam natory met and a chronic pa less non inflam free from tenderness. As a rule it mode et the lord reterior tenderness. As a rule it mode et the lord extremit es aff citus the subcutaneous tissues and to a less extent the skin. Sensory changes are rare the general beath is unimpaired and the common

systemic diseases generally associated with redema are absent. Complaint is made only of the weight size and unsightliness of the enlarged parts.

In the past year five cases of edema of the sporade type have been studied in the Cornell Clinic All of the subjects were women In no case was there a history of inflammation or skin affection. The swelling had uppeared gradually and had been present for from nine months to thirty, years

present for from nine months to thirty years

The author states that it is questionable whether
such a condition may be described correctly as

such a conquion filary for describing mand the hype dephyntassa; as this term call manual the hype pachs dermous enlargement fact by jumphate of such as the such as the such as the such as the such powers the two characteristics of elephantiasis are chronic odema and secondary proliferation of the subcutronous connective issue and the pathological basis of the ordema is a blocking of the circula tion of the lymph

Manson states that lymph stasis alone does not produce elephantiasis Matas defines elephantiasis as a progressive histopathological state characte ized by chronic inflammatory f brosis or hypertrophy of the hypodermal and dermal connective tissue which is preceded by and associated with lymphatic and venous stasis and may be caused by any obstruction or mechanical interference with the return flow of the lymphatic and venous currents in the affected He maintains also that for the characteristic hypertrophy of the subcutaneous to sues a second ary and repeated bacterial invasion usually strepto coccal is es ential in addition to mechanical obstruction whether the latter is caused by filarize lym phangitis adenitis or thrombophlebitis. The creat or occurrence of the disease in tropical climates is due to greater exposure of the unclothed body to trauma parasites and skin infections

Howeve the fact that when elevation compression and massage do not give relief the orderna disappears when new channels are formed for the lymph flow proves that I) mphatic obstruction alone may be the caue

In the study of ordema of the arm Handley excluded venous obstruction a a factor as he reduced the ordema by replacing the lymphatic channels with sulkworm gut Dramage in the leg did not have a similar result

In cases of chronic ordema in the lower extremities treated by Lanz by multiple incisions in the fascia lata and the introduction of fascial strips into the marror of the femur permanent relief was obtained

Kondoleon has had greater success with a simple fed technique of fascial division and removal. He divides elephantiasis into a mild force manufesting only lymph stass a and a more advanced selerotic type. Causes of obstruction in his cases included acute inflammation of the foot tuberculosis of the knee joint total extirpation of the inguinal nodes and traumata.

In cases which have come to operation there is conclusive evidence of the role of lymphatic block age. Cases without a history of inflammation may 12 5 0

trait phints ar tum fetar 1 g sell tights mt fluinge gi efral. tirenti t H frit 13k1 1 (1 . . . Imal rimghts betrit The state of the entre of the tut legitati e i 1. 11 u ts I in rar t my i irk helt a lett leng i er k tir ribint i for i flebal iinemi li

. h

bed flagatil nu

Destantin A L and Ford P & Hadakin Dicase ad lymphasar ma / in Il i , 1 It i get et 1 11 1 4 (1 4)

remailigh we was it not a DOLLAR m nii g ning the latefalls tlilylt tina 1 1 m at te 1 1-4 tt it "ti îteu t nl Ftter enter the table Clit Cringal PM Cr

references to the state of the what will realer

ra! i n

wing the report parties. I ben t mak we to any energy ! inger telabe wiel reib e or almost to tit Cl. The lest et fi e fi nint epat et w bli ly we have like light to t leghtroute 2 8881 11 for my fire a thing a langer Th me entretes a margaret

Of section to with Hitch to some fem-

The per transfer to the life in the state of the fresh i I ffish I may me e if the fetherhillen if the barries le 1 2 11 1 1 1 a 1 d O at my warfigh lift. club and tota 111 tel thirterk the finality relamblement + A tur back of

t e thuir ch e ı L Thatt fall the weef mie a realit Intertwine protect

SURGICAL TECHNIQUE

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Merklen P and Hirschberg F Autohæmo therapy in Furunculosi Pyodermatitis and Other Local Infection (I them therap d ns la { l c l py le m te et aut s inf t s local }) B if im S med d 16p de Fu 933 35 xx 8

To empha ze the value of autohæmotherapy in funcuolous po lematitis and other local supparations the authors report in deta Hourteen cases tracted by this method including e pht cases of furuncle two of suppurating follicultis two of hymbadentis one of a ound infection and one of cedematon persons litts. In the eight cases of runcil s the lessons e e he led in fire and their trata ment failed in three. Two care so of follicultis and more timed in yelded quackit. One case of dadents was only partially influenced the other underwent market amenderation.

Frequently two injections sufficed for healing or produced more or less decided improvement

The treatment consiste lof a dose of 5 to 15 c cm of the patient's v us blood frawn and injected immel aftel into the buttock. The dose was repeated every second or third day. When the injections failed to act vigorously the patient was seen laily

After one autogenous injection extensive skin lesions of multiple points of suppurat ng folliculiti usu lly dry up. large furuncles subsite lirectly developing furuncle sare also ted and softening and evacuation of the core are accelerated. In sime ace sho ever no effect in noted If there injections c use no change, it is useless to continue with this form of treatment. Wa TRE C Burkart MD.

The u e n the ound of large amounts of po

Laskownicki S Tie Use of Lugol Solution in Su gical Tubercul is (Lug like R gg n hrug h Tikk!) Ilkg Ik 93

The uthor tracted tule erculou ab c es and er vical n les uth injoin no fisting L g l l tion. The i ln au cs an act ve hyperamia in the vill of the ab c histen the prol ferit on of the content and its chemotactically upon the leaton test in the pub comes thinner and the ab esce cavity shrinks very rap div In addition the

iodine has a favorable effect upon the general condition a fact which in lucid Bier to u e sodium iodide

in the treatment of tuberculosis

Of thems, three patients treated only with injections of Lugol solution in doses of 1 to no CCm ever five to seven days minteen were cured in from two weeks to three mantles. No unitvocable sequelac were objected from a lyantages of Lugol solution over ioddorm glycerin are its stronger and more rapid action and its cheanness. Kwst (2)

ANÆSTHESIA

Carrea J U The Technique of Induc ng Trunk Anæsthesia of the Superior Mazillary Nerve by the Poster or Palatine Duct (Tf n pr la ne ng trular lel ne om il r sup or p el of t pluop te) 5 m a st 923

Carea recommend anaesthesis of the trunk of the superior maxillars nerve through the posterior palatine duct not only for work on the teeth but it of or operations on the nose and in the zones in nervated by the superior maxillary nerve. The posterior polytime duct i easily approache! Its entrance can be found by locating the two palatine flosses which it upon the bine of the tuberosities of the maxilla. The d tail of the author's late t tech inque ar die used and illustrated.

W 1 BRE 141

Roussief A New Technique for Inducing An methesia of the Abdominal Sympathetics (N u ell t ch qu 1 e thé d sympath | e bd mi |) B | | d | q23 | 807

The induction of regional anaesthesia of the splanch or nerv's by the anterior abdominal or posterior paravertebral route often giv's complete massthesia of the stomach and bilary jassage Operations on the colon spleen kidneys append v and sigmoid flexute require combined anae thesia of this planch included in the colon spleen with the the colon sp

Combined anissthesis may be obtaine 1b, a single injection of jot to cre mot or 5 per cent seurcement. The injection should be mail at the right side of the origin of the mesentery under the root of the transverse mesocolon, here the superior mesenteries artery leaves the anterior surface of the duadrum to pass into the root of the mentery. Then need let introduced at the pint und 7 the right left of the mesente y and 10 cm of the anasthetic are injected. The needle is then onente [10 ar] this bac for 10 x 2 m in th thickness of the mesenter and 0 c cm of seurocaine att. injected. The find diffuses along the trunk of the superior mesenteric actery to the dioxectal angle and in the retroperi

KALB (Z)

pedicinal information and compared to the abstract of the compared to the comp

thalt a folige tit age a febru

rings craff to the action of the part of the third that the action of the third that the third that the content to the content

Afairth the brine we will be a state of the state of the

in a fill of light to the fill of the fill

g the enter my Harpened sense per g mlass sense

the fall it turn and the just mance charge or

SURCICAL IN TRUMENTS AND APPARATES Lakes W. W. Th. Shi ep and Sterile Scaled

Water C F at 7 MP

the rate to a thombout the good because the month of the light to the light light to the light lin

PHYSICO-CHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Gallay J Mechanical Strengthening of the Image in Roentgenography (El refor d mecan c en rad og fi) Cl ylb 93155

The author refers to Piergro si s method of using a photographic membrane of double emulsion to obtain two images This procedure i similar to chemical reinforcement of the image. In the develop ment of the two negatives they are given the same intensity of tone in all their parts When the images are united the positive gains in detail and strength There is no gain in contrast because all of the tones

have been strengthened equally

In the author's modification of Piergrossi's method he uses a Libenfeld ampulla without a localizer an anticathode distance of 45 cm a membrane of double emulsion a spark of 9 cm a current of ma and an exposure of five seconds He obtains two negatives in which only the white parts and those with a medium tint are reenforced and the dark regions The method he rema n perfectly transparant The article is calls mechan cal re enforcement W A BRENNAN dustrated

Sicard J A and Forestier J Roentgenological Expl ration by Mean of Iod z d O I (F pl a t nrds log que pribule 1) P ss m d Par 19 3 xxx 493

In certa n concentrations iod zed oil remarkably opaque to the \ rays The authors have obtained very clear roentgenograms in experimental investi-

gations with this vehicle

Iodized o lis well tolerated by the t sues does not cause pain does not leave any unpleas at or painful sequella and d es not have any general toric action Moreover it acts the apeutically and whin it is used in painful regions it has a sedative effect. It enters the epidural and subarachnoid cavities and even the bronchopulmonary spaces which previously were me plorable by the \ rays

The authors use a preparation called lipoidol This is an organic combination of poppy o I contain ing 54 gm of od ne to the cubic cent meter

In the exploration of the subarachno d space an i nection of to I c cm is made by lumbar nuncture

With suboccip tal puncture and injection lipo dol has been found of g eat value for subarachnoid and h gh pinal explor tions Whatever the technique of inj ction if the sub achnod reg on is obl terated by a compressive process the I po dol will be held or imprisoned and the roentgenogram will show the site of the intra pinal compression

The authors descr be also the techn que of ex ploring the epidural space and discuss the roentgen

findings in such conditions as segmental meningitis and medullary compression

B) means of injections of heated lipoidol Sicard and Forestier have been able for the first time to obtain perfect roentgenograms of the broncho pulmonary cavities From 10 to 20 c cm of the ipoidol are injected through the natural laryingo tracheal route by means of a long canulla passed through the glottis or by puncture through the cervical fascia and the crico thyroid membrane By placing the patient in different attitudes the various regions may be examined Tuberculous pleural or pulmona v cavities and bronchial dilatations may be thus manufested

Because of its great opacity to the \ rays its tendency to spread and it harmlessness iodized oil deserves a high position among the substances suitable for roentgenologi al exploration. Its use has made possible an effective investigation of cavities which previously could not be explored with the I ray W A BRENNAN

What Causes the Healing Action Holzknecht G of Roentgen Rays? 1 h Rad of & Fl troth rapy

Pordes F In Explanat on of the Action of N Rass Is It A cessary to Assume Functional and Growth Stimulation? At h Rad l -Flect the py 923 vv 89

HOLZKNECHT states that although the effects of roentgen irradiat on have been carefully observed and minutely described the manner in which the rays act has received very scant attention until very recently During the last few years great effort has been directed to the exact measurement of dosage and to the devising of methods which will assure the equal distribution of a definite amount of roent gen energy in every unit of radiated tissue

Attempts to explain the action of the rays have met with the difficulty of trying to harmonize diametrically opposed actions one of apparent stimulation and the other of retardation resulting from different dosages of the same agent Holz knecht maintains however that although it is known that roentgen rays destroy living cells and that the destructive action varies with the sensitiveness of

the cells and the dose employed absolute proof of a stimulative dose is lacking. If there is such a dose the question arises as to whether the effect should be ascribed to damage done the cells or a selective action on the function of increased cell production The assumption that small doses stimulate and large doses destroy is entirely contrary to fact for in the first fifteen years of roentgen therapy in which only small intensities were used the records mention only the retarding and damaging effect

when in more stage who we as a baret of break of the life of the last of the l aurheit if to Hittenhil that at a rentg and attend the get and a fat wileterilas fmrtheths Frit mita it thi tret alt a rte a liginith \tile wim t it that bles cotts 1 - 1 1/15 1 1 [Head fit tit t get CEE W 1 If the litter who regritted a h tr fet f 1 11 - - 1 atout the thefte in the gtebergt rt ur Ut reife the fier se

its tens tile et it n fill to tate the th the tail ertans 1 (* 1 1 1 1 (m t f h g m let 1) 11 r t ip t that swin t titlett ilmin the [el witel 1112 in i t t that I to t

tl rn rhitt erer t -1- gr 1 1 17 1 = 1 er t | 1 | 1 | t nt! I th th h t t 1 75 11 M D

Mar II R & 11 Michillett f Cert in In du tri [in] ties an 1 11 | Tr im at t th A Ray F H J 1 4

(stattl) safes 1: 1 1 ti fint thi t f r 1 I trett t ver f f The series of th to Rete to 1 part the til to the til is the training of the from the fill the from the fill th IN f th did to mk! Ite

At it the thing the stands of many in the interest of that keep contains the interest of that keep to the interest of the in fet ain to far thur le n finit in t sect

aft f Fris f at a s fette repers t intere t it agesterne date in which him were ner than in a star new strong race flow fabreau straff a file a n in the filters er traff to make to fe hill a ser traff to make s It reap heart to territors

rat Instances - in 1 at all a specit ofth to Interport to the line of e teler II I The familiants at 5m it chasticammate mb t 1 1 7 1 1 te (bis at its N 11 1100 Pr. v teres 1 10 11 3 111

States W. Studies on S.R. v. 18 cts. XIII Ill tologi I study of the I I of ta m f f ft Inocul ted into n \ Rayed Arr Itt Litt its

In a work of the state of le mitter bil im al the reachest the exited to the restaurant of the restaurant to the t m r k la fib gatt ni ta fab gatt of m g It to tell the fall and gt ister til p to timber out til se er geft til til to make til sem til se make tifficultist the we derin Th her at

the still still of this try minuter terift by terity nor s demotional valuations of all t i st i at it of • fig i nimint cl th All I I I n tietee imitt tittteth put at lath the till tat the 1 1

I to be like been the to the been the to the total to the total to the total to the been the control to the been the bee 1 1 11 th f t i t r tutfem 1 It I threspon ni n r 1 r 12 f1 Ib th

ry war

comparable to the frequently described stage of can er cell degeneration following roentgen ray treat The finding contrast strongly vith the sur vival and growth of grafts implanted in unexposed remons in the same animal Since the changes are the same whether the cancer cell have been directly exposed in situ or merely implanted in the previously exposed skin it follows that it i impo sible to establish micro conically a direct injury from the roentgen raying as the principal factor in the ther apeutic action of the roentgen rays on cancer

ADDITED HARTING M D

DADITIM

Out k D. The Relative Value of Unfiltered Radium Emanation in Deep Therapy J Rad | 9 3

O ick d seus e interstitial radiation and com pare it the the valous form of external radiation He d fine interstitial radiation as implanting a ith in the ti sues the unfiltered tubes of radium emana tion. As his compar ons are based on gamma rad ation only he i cludes the use of needles con taining radium element

Unfiltered radium emanation tubes are glass ca p llary tubes o 3 by 30 mm in s ze which contain fro 105 to 2 mc of emanation Quick uses stronger tubes in the more bulky tumors and a c mc or less n those that are smaller For average lesions about I me is the mo t p actic ! The tubes are ster lize ! ly boiling in I then atroduce I with a special hollor

trocar needle being di tributed throughout the mass homogeneou ly The emanation d integrates slow ly decreasing in strength approximately is per cent per day. Thus a me of radium emanation gives a total radiation equivalent to 132 mc hrs

The advantages of this method include uniform di tribution of radiant energy throughout the tu mor and almo t invariably good results. Complete regression of the tumor is attempted in a single an pheation when the is done there i absence of librous tissue due to previous radiation the local effect a more intense the constitutional reaction less, and the treatment is less trying to the patient

The flexibility of the method offers many advantages The tubes may be buried in areas where it is very difficult to maintain surface applicators accurately in tlace. They may be employed in many ways with surgery particularly for lesions of the neck and intra abdominal growths

The u e of the emanation tubes a confined largely to localize I growths 1 danger associated with their employment is that of spreading infection. The danger from foreign body action of the tubes is practically negligible and that of sloughing and of injury to nerves and blood ves els 1 not serious

The author concludes by stating that his six and one half years of clinical experi nce with bare tubes have convince I him of their superior eff ciency in the treatment of malignant tumors because of the mo e desirable tissue reaction they produce the fl tibility of their application and the advantage of beta radiation WILLIAM L. BROW M.D.

MISCILI ANLOUS

LOCICAL COMPITIONS

R bertion B and Bail (1 The T samila of Series 8 perfects fluin / 13 mg 37 2

Win the state with the frotter of the frotter of the state of the stat

Infinite and the light of the least of the l

Istratial giftent to the thing of the first probability of the second for a firm of the second of th

The mort that to re.
We constitl them so off not.
The Home trace more trace
For long post to the more to with

Het tott of the order who then totted on the totted of the order of th

Ifall I I Tr latt to ic Anatory of the Airen I in Apont neon Congress / to the Airen Airen I is a fall of the I is a fall of th

Serth It I that meet not not the twenth gody tacens himshif I hen not directly the treatment of the thing to the thing the thi

The structure of the control of the

t to a with the arm in the proof of the proo

M grow Th fits bey of Cancer 1 to e sho) F end I is 1 xxv. I be already to the determinant

ter et ell ver a liter tout ente

It do not be not

farty of moderate and the state of the state

that not establish poles action to the tage.

In the life to lead concrete to the poles accept to the poles.

In fact of 1 - and new of 1 m f for it is a find product of 1 life of the product of 1 life of 1

I with best to reference of the foother to rest in fill the core in the foother to the foother t

the the strict (1981 and traction of the strict of the str

I talum by the fit to the present in 10 ft that the first

to cancer Troisier and Wolf have shown recently that potassium salts favor the growth of cancerous

grafts

In conclusion the following theory is offered Under the influence of a high frequency light wave (or an equivalent radiation) emitted by a radio-active element-even potassium-the cells take on a certa n vibration resulting in karyokinesis according to their sen itiveness to the light wave In a state of normal equilibrium this process ends in the karyokinesis necessary for growth and re generation of the tissues but if for some reason the equilibrium is broken the intensity of the radiation becomes greater and the number of karyokinetic divisions increases up to the point of tumor growth KEYLOGG SPEED M D

Roncali A Survey of the Experimental Investi gations on the Ethology and Pathology of Car gations on the Existing and Fattonogy of va-cinomatous Ne plasms (Del m dome va-ite sulla fede dell dag e spermentale leto-loga e lap t gen si dell mf o od infi mmazio i carcomatos). An il d chr 1931 43 65 699

The essential or primary cause of the occurrence and development of carcinomatous neoplasms in the viscera and the parenchy matous and other tissues of the h gher vertebrates is solely and exclusively the complex action of a living substance of para itic nature which is foreign to the organism in which the blastoma de elops

Carcinoma develops because among the elements composing the tissues the e are certain types of cells which are notentially anaplastic. Although these cannot of themselves cause mal gnant changes they form the nidus wherein the parasitic organ sm caus

ing carcinoma d velons

The blastomy cetes are found in a large number of epithelial connective tissue and mesenchymal car cinomata in the cellular protoplasm among the cellular pillars in the supporting connective tissue occas onally vithin the nuclei and rarely in the protoplasm of the metastatic growths

The blastomycetes found in the midst of carci nomatous substances appear as pherical o oidal kidney shaped and triangular organ sms some are extremely irregular in outline They vary in size from that of a red corpuscle to that of a larg sar comatous cell They consist of a homogeneous hvalin capsule with concentric rings

The blastomy cetes found in carcinomatous tissue are subject to degenerative chang a either a loss of chromatin or calcification. The lat er process may increase their size to that of a giant cell of an osteosarcoma or a large tubercle

Frequently the blastomy cetes developing in the substance of a blastoma of the higher vertebrates can be cultured in pure form provided they have not undergone degeneration

In the process of their development blastomy cetes elaborate a toun which causes a local inflam matory reaction eventually resulting in a neoplastic

change of a carcinomatous type and ultimately in metastasis The blastomycetes of the higher vertebrates cause

malignant neoplastic changes by the formation of soluble toxins which act as chemical irritants

The town of bla tomycetes is a substance possess ing colloidal properties not unlike those of the towns

of the various pathogenic micro organisms When the town of the blastomycetes enters the circulation it comes into contact with all the cellular structures but only cell with a lessened power of re

estance unite with it Cells of lowered anatomical and physiological re sistance evince a marked aff nity for these toxic ele

ments consequently they are potentially patho

logic potentially anaplastic U hile the endotoxin of certain nucro organisms is responsible for various types of infections and in dammations the toun of the blastomycetes is re sponsible for one particular type of reaction-that of carcinomatosis

The toxic colloid of the blastomycetes excite an atypical reaction a proliferation of these potentially anaplastic cells not by an extra or intra cellular catalytic action but by a physicochemical combina tion with the protoplasm of the cell wh reby is formed a new product a pre-carcinomatous proto plasm from which carcinomatous cells develop. As these cells are the result of an unnatural combination between vegetable and animal colloids and are en dowed with certain specific attributes transmitted suthout loss or change to the successive generation of cellular structur s th y po sess functional and piological properties not found in any other type of animal cell

These cells once detached from their source of

origin and carried by the lymph and blood channels to remote or proximate areas are capable of multi plying indefinitely of maintaining their character stics and of reproducing the same action and re iction as that manifested at their site of origin They cause the phenomenon of metastasis by one of the four following method

I By their multiplication at the new site 16 metastasis by specific action of the differential neo plastic cell In this type of growth the neoplasm has a histologic structure identical with that of the pri mary mas

2 By multiplication of the embryonal cell not differentiated from the oxoblastoma or the spermio blastoma 1e metastasis by specific action of the undifferentiated neoplastic cell In this type the histologic structure of the metastatic growth may sometimes differ from that of the primary neoplasm the ovoblastoma and the spermioblastoma but al

ways shows a marked difference from that of the

tissue in which it is formed 3. By multiplication of the connective tissue cells of the region in which the carcinoma cells take hold a phenomenon determined by the elimination of a parasitic toxin contained within the malignant

epithelial cells i.e. metastasis by direct infective

action of the carcinomatous cell. In this case the

from that of the original neoplasm

4 B) blastomatous changes of the connects et tissue element at the six to 1, which the extremonatous cells of the original got with his emigrated—cells of originating amplitute change 1 e. metastass by by directly infective action of the parasites contained by directly infective action of the parasites contained vithin the migrated cell. In this cise the 1 tologic structure of the m tastitic mas as completely lifer

ent from that of the primary I lastoma

Every carcinoma i the result of a funct onal and
morphological priversion of the cells con tituting it
consequently the cell that form the structure of a
bloom can never I e analogous to those of the adult
or embry onal organs of man but must be at yield

Their secrete I products mu t 1 ob a tuy cal Morpholog call) the carcinom tous cell 1 if its from the physiologic 1 and "piproches the path log cell of the various inf crive in I influmenton 100 cell of the various inferious continuation and all the deviation of 1 logment and reproduction that are observed in the cell of the various acute subscute and chr inc tages of influm tion. Use cord glist tima b stratel that I eldor the e cell beet me definitely cancer us they mu tipas through chronic inflamm to vertice acute to a marke fit. Chronic inflamm to vertice to the cell of the control of the cell of

In physiology the recap tulation of phylog ne

mogene

While spont no cr nom 1 ad ease heb begins with an infe tion or inflammation of a cell or group of cell in which blastomicet's have becom local zed e perimental arts om 1 a disea e heb begins 2 at no 0 is of one o a group of lls de to the inocul ton of the toun of the blast mye tes to or the inoculition of the blastomicet them

sel es
Th injection of pure culture of blastom cete o
the toxin of this parasite into animal particularly
the dog has been followed by the divelopment of
amous types of arcinoma such as epithelioma
adenocar noma lymphomy sarcom and gliofibro
endothelyome.

An tomi al patholog cal clinical a d th rap utic iteria indicate that the typ s of par sites respon

s ble fo blastomata e multipl lut to dat only the bla tomy c s has b n recognized

Recent study s of carcinomata in the h n have shown that many of these blastom to are doubtramicros opine organisms. The suggests the further invitation may revel an ultamicr scopic organism at the suse of spontanos car commandation.

The f ture treatment of carcinome should conert in the edge in nof the mass plus the injection of seral either a specified seem of a chimical capable fide troying calcinomatous cells beyond the alea of excision.

Be ause of the multiplicity of the parasite types the specific immune sera and specific chemical essential for the treatment of carcinomata must be of var ous types. \smany sera are necessary as the e are species of organisms.

Immune sera will be efficacious only insofar as they pose s a triplicate action anti-esotoric antiend storic and extolytic James V Ricci MD

Kupferberg New Methods in the Treatm nt of Cancer (Ne W g in d kr b b h n ll g) W h t m d ll h h 1923 l 6

It has been ol erved that recurren as after contagen ray textament are fractory to the rect gen ray but respond to radium and that recurrences after treatment with rad um are refractory to rudium but respond to the roentgen ray. The author has noted however that these recurrence react aga in to the means which of the recurrence react aga in to the means which of the recurrence recurrence react again to the means which of the recurrence most of the recurre

L'écellent résults have been of tanned be embéd ung crypifars pla set l'filléd with radium emant on particularls an eas soi ever omns of the tongue and it ep route du said et per le partie le dissolnt et gre onit thès e e pa n' from the irritation l'i th' regret hode si ée pa n' from the irritation l'i th' regret hough etc th' irritance l'indicate de la comparation de l

let do n into the h llo paces so formed. At the end of bout t o weeks the pencil is absorbed thout ha ing c used pain or irritation and dur-

ng thi t me the tho ium \ is continuously working

on th tumor by It ha an i beta rays Anothe method of employing the rad tions of rad acti e sub tances over a long je iod of t me is the use of the of ble and the i luble salt of the hist t ge of thor um \ radi thorium which ha a half value time of o e an I thre quarter vears The soluble a it has been allerdy u el succe full in intraseno injecti n by Lazarus I Berl n a an auxiliary to the local treatment of carci om The ruth r had the 1 oluble salt prepared in her metically s le l mp ule sterile a d in su pe sion (25 mgm of thorsum oxide to a h ampoule cor re ponding t a gamma rad at on of o t mgm radium bromid) After this slightly malky fluid had b n ell h kin he injected it drop by drop nt acces ble carcinom nodules infiltr ti g the tumo s again d again W thout any react on the tumor forthwith beg n to shri k and aft r s x to t el e ve ks had almost nt elv d'appear d'The ma mum dos w one ampoule N chang 1 th n ted The filtrated in oluble s lt c uld be seen in the roentgenogram for as I ng as fou

weeks. Up to the present time five cases have been successfully treated and have been under observation for three months

"On account of the long, balf value time of radio thorum (one, year and thine quarters) a second and more extensive injection 1 not adit able be fre ast months at the earliest. The best dosage and the po sil be cumulative effect of the rays must be determined. The combined us, of the rounigen rays 1 of advantage, a thin liberates the secondary of the distribution of the determined to the distribution of the determined of the determined of the distribution of the determined of the determined the control of the determined the determined the control of the determined the c

Paterson H J Are the Re ults of the Operative Treatment of Cancer B tter Than Twenty Years Ago? B 1 W J 9 3 556

Helieving that the op r tive results for cancer are not any better toda's that early vear ago the author warns against general fissection of the lymphite burriers about mahgnatin neepl sm. The primary growth should be reflowed first and The primary growth should be reflowed first and The primary growth should be reflowed first and The modelence of there year cures; flowing raided operation for cancer of the lires at the Halsted methol (44 p cent) is practically the same as it.

as then the axill regian leave dissected only when they showed definite in observent

WILLIM I V WAGENER MD

Juengling O Roentgen Tr atment in Surgery
(1 ntg nb 1 dl ng d r Chi o g) 5t kl

th op 9 3 76

Mer a short to himsal nd biologic l d ussum the authorizer s th results obtained the rocat gentre threat in the urg cilcling of th University of Tubingen. The dosage as b sed up in the

s) called biological syst m of measurement the unit

of which is the kin erythema d Juengh g litnguishes three state of ration (t) the early nets n i h h ap ears a f i hou s after the t eatment and di appears in a fee days (2) the actual roentgen re ction all phenomena dur t g the first four ve ks (1) the late react on all sympt ms appea 1 g fter th hr t four weeks Con n cti e tis u rea ti n e pr luced ly d s in tce s I 100 per cent of the Ln erythema dos When they occur sup us n of the tement is and cate I and no further los m be given until they have mpletely d appear d B aus of the danger l'a cumulati e effect th trentment should ne er be given during the period of lat no. In the conne tive ti ue the peri d'of latence s'from eight t ten ek If no chron cally indurated ordema of the skin ha leveloped after this I ngth of time the treatment

man be epe t d. It should then not be given again until after the lape of at left the months.

The less tructive d. if it he care in mancell is usually to per ent of the kin in thema dose but in some case smiller dose him. I den success ful. The rulls in cin to 1 has cleen ginerall good in

Juengling s experience The technique 1 a 30 cm foral skin distance 1 2 mm \ \lambda \left(n hen deeper 0 5 mm Zn) a 130 150 per cent dose

In the last fee very structure and a specific with involvement of the cyclul have been treated with the roentgen ray in the Tubingen clime. Four have remained cured for two years, the two others are still under treatment. No stimulation of growth by the treatment has been observed.

For carcinom of the lip not too far advanced the author adva soperation. Within the mouth room gen treatment does not give very satisfactor it results radium is more effective. In cross of carcinoma of the tongue extripation of the glands is

necessary

Carcinomata of the alimentary tract do not offer a
good opportunity for roenig n treatment as the vid
ministrat on of the smallest dose 1 apt to damige
the spleen and the adrenals. In inoperable carcinoma
of the stomach however this treatment should be
treatment should be given the spleen of the stomach
treatment should be given only when the condition is
inoperable and after the establishment of an artificial anus. The result are usually not very encouring
ing but Perthes. June reports cures of four years
duration. Common to all cases of rayed carcinoma
of the re-turn re-system intorucation phenomen.

of the re-turn are severe intoxication phenomena, the greatly love the vialit. The application of the minimum dose in car inoma of the rectum makes as great a demand on the organism as operation when the carcinoma is operable.

In the treatment of arcinoma of the bladder pro tate and bile ducts with the roentgen ray ex perience is still too limited to justify a statement of the results. With regard to carcinoma of the breast it is generally agreed that all operable cases should be operated on as early as possible. In monerable ca es it is sometimes possible to achieve excellent pall ative results and occasionally to obtain a per manent cure In the Tubingen clinic one such favor able case was raved three years ago for metastases in the skin Is a rule immed ate good results have I cen follo ed by metastases The roentgen technique in arcinoma of the I reast a parti ularly difficult. For the present Juenging has discontinued the prophy lactic roentgent eatment of the condition on account of the general destruction connected with it (changes in the blood and connecta e to sue)

The results of excl sive roentgen treatment of circ roma of the tongue atomach and rectum do not encourage its use as a prophilactic measure in cases which have been per ted on. In cancroid of the skin and carcinoma of the 1p the results of operation a e so good that postoperative prophilactic raving superfluors.

Roenigen treatment of sa coma offers better prosperts: At le st th is indicated by its immediate effect. With the present technique prompt red ef of samptoms is obtained in about 30 per cent of the cuess. In 43 per cent ho ever only partial retrogress on of the tumor results. The ensitiveness of sarrooms to the action of the roentgen ray varie within very ville limits. There are alsolutely refractory sarromats with as the melano atroma and allover sensitive forms, such as the lymphosar coma with may retrogrees after the application of owners after the companies of the sensitive forms of the lase. In Junglings, primon the excession of a percursen of tissue for diagnosis toes not still ulate a sarroma to more rapid growth.

Sins streoms of the jay restree in treatment should be given only vie in the condition; inoperable in other c. es better results are obtained by operation, in other c. es better results are obtained by operation, in other c. es better results are obtained by the strenum should r gardle and pel is and in pen otheral surface noticed streaments; smore efficacious than operation. In central streams of an extremity in the properties of the stream of the stream tumors are pring impresement has been observed. In case of I romata of the no phasp is the proposes is

ecc d Koentgen rays are not a pecific in tuberculosis Their non specific acts n 1 ff rs d ci I dly in foci in Roentg n treatment in tuber different situation culosi should be regard I as supplementary to con servati e me ures \ sympt matic cure is ob trined in from 80 to 90 per cent of the cases Tub r culous perit n t i well su ted to roentgen treat ment e pect ils the les f rms. The dose is 10 per cent of the kin eryth ma lee. In cases of tubercu losis of the L lney and of the p d dymis no positive cure has been seen in P ribes of n c. In tuberculosis of the bladder the renther ray may be used as an adjunct to the u u I me sures. In bone and joint tuberculo is operat on a indicated by the presence of a separate I s questrum. Children with bone and joint tuberculo is should be gi en con ervati e tratment in the the roentgen ray is a valuable aljunct Roentgen tr atment i e peci lly su table of mall bones and joints and cases of for tul ercul mixe I infection Cood results often follow roentgen tr atment of j int tubercul sis in the aged. In all j ints of the e tremities Juengl ng u es the so-called rec nstr cti n m th d with bolus alba or rad opla tin. The roentgen vi e pecially valu ble in the t eatment of tuberculous of the writ but in that of th knee and tendon sheaths its results are gener ally unfavorable

Roentgen treatm at of actinomycosis is particularly successful

Inth successful

The article is a name not of the oentgen rive and a
t ble of dises fill different dipths under various

| Conditions | Carlo x (Z) | S y | 1 in and Hoel el | The Treatment of S rcoma | (/ S k mb | H g) | B / k | Ck | 923 | c x i 59 |

A study of in 1 tions for r entgen treatment was midel in the ty three cases f are min at the Wierz I rg clie. Ten v r cases of recurrence after operati the live were f disoperable at operation s were r cognized as noperable at the be

ganning and only fac a cre conditionally operabl In 33 per cent the primary tumor disappeared under roentgen treatment only 18 per cent remained completely uninfluence ! The total number of cases treated by X ray and combined to tment 1e cases operate i upon and subsequ ntly rave i dur ing the past three ye is was saty four. In o ly s ven of these was the treatment of a pull ative nature Of the rem ining fity fi ep tients twenty five lelduring the year following the treatment and thirty are still alive. The greatest length of time since the treatment in the cases of those still I vi g is four years. The author assumes that all thos who ha e remained well for over one year are out of danger. If this is correct the number of permanent cures was eighteen (33 per cent) percentage agrees with the report of S iz and Bintz on extragenital s room to treated by the roentgen ray exclusively

In the Waersburg clin c satromata were treated with a relatively h ght live the sarroma close being regarded as a medium dose. In cases of bone time recurrence was empty cl from the first. Prophylact c roentgen treatment after op ratin was carried out in the same manner but sel lom more than 0 per c nt of the skin-erythema dose was applied. Kepetit ons of the treatment after work was applied. Kepetit ons of the treatment were underst ken if a tall only after it least eight weeks had elspised. I rophylactic treatment is see pecully indicated in sarroma because there are then oughly proved cases which have been curred by requiring treatment and a rooms offen metaltassares are considered in the clinks in the t-siste and the lymph channels.

As to primary \ ray treatment of sarcoma the authors hold that there can be no questi n but that it is d fin tely indicated in cases of in perable s r coma. In primary sarcom of the lymph glan 1 in which surgery is usually of no avail the results of roentgen treatment are very good. Impro ement and e en a temporary clinical cure have often been observed even in inoperable cases. In a r omata of the kin in uncovered parts of the body e pe cially the face roentge tr tment is pref rable to su gery. If prompt results are not brained a repet t on of the treatment is ont nicated by the danger of skin necrosi. d other 1 agr cabl phenomena in the healing of the ound in case operation is performed later. The choice b t e n ray and surgical treatment a nost liff ult in sarcoma of the shouller girdle the pel is o extremity Sarcomy of the soft part generally r acts well to the roentgen av If it is oper ble a th out mutilati n it i be t to operate and pply the roentgen ray afterwar! The results of re ect on of the shoulder girtle or pelvic gi dle ar very poor With regard to per o teal sarcoma the auth r states that in spite of the favorabl repo t which have been made it is not at all certain how much roe tgen treatment can improve the unfavo

able prognosis but the results so f r obt ed are

encourage g

CRESTE (Z)

HOSPITALS MEDICAL EDUCATION AND HISTORY

Newman G Permeation of the Medical Curricu lum by Preventi e Teaching Brit M J 10 3 347

In 1922 by a resolution of the General Medical Council the medical curriculum in Creat Britain was completely revi ed to make it more preventive in purpose The medical school have already made arrangements to carry out the recommendations of the Council

There were two fundamental reasons for the new attitude First it has come to be recognized that as compared with the twenty three centuries since Hippocrates we are living in a Gol I n Age of medicine the chief glory of which has been the advance of prevention and secondly it is now general ly acknowledged that the ultimate purpose of the science and art of medicine is not to cure the in dividual patient only but to seek out the laws or principles which govern health

Ney man gives statistics for England and Wales of four victories in preventive medicine namely typhoid fever smallpox suberculous and infant mortality The factors which have given the results in these four conditions are improved sanitary en vironment vaccine personal and social hygiene and

enlightened motherhood

The medical curriculum can be permeated with the spirit and methods of prevention to aid in conquering 80 per cent of the common conditions the doctor is called upon to treat

The student hould ask himself Why is this pati at here? What is the physical or social com plex that ha made his body depart from the normal? To what stresses and exhaustion has he been subsected. How did he acquire this condition that

troubles him and me? The preventive attitude of the student cannot be left to opportunity It must be provided for First of all he should get a clear and fair scratch line He must know the physiological standard of health an I capacity from which he starts. Next he must become keen in the search for the primary and secondary causes of the morbid condition he i in vestigating Lastly he must habituate himself to think widely and resourcefully of the means of preven tion Poverty industry personal habits social con ditions and changels of injection must be considered. as well as the grand category of preventive thera p uties including drugs vaccines sera organotherapy sunlight electricity radium massage p ychology and the wider factors of environment He must learn by ingenuity to apply and adapt all knowledge to the harnessing of disease as a whole The patient is to be cured yes but out of the nationt is to be wrought an understanding of and an attack upon and the prevention of the particular disease from which he suffers While the student may not be able to practice prevention as he learns to practice the cure the 1 sucs raised being beyond his immedi ate control he should remember that to prolong human life and make it fuller better and more of fective 1 the master task of mankind

CARL R. STEINE M D

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE LIGURES IN BRACKETS AT THE RIGHT OF A REFERE CE IND C TE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head Report of a c f fract e f the skull c ng 1 ath aft r | envars S Surriea I M I was But M I 19 3 11 647 If ted lact ftheb se fth L HAR Cours Surg Cln N 1m 1923 11 131 Th managem t t m t th craim dits Surg 19 3 1 71,433 cont t J O Bower 1 Surg 10 3 1 71, 433 1 case I sarcoma I the L II mu general 3 3 ts fter perat a Ipost perati ral tin O Laserman. Ze talil f Chir 19 3 l 119 rno thrombos W S LEES Atlantic MJ 1013 rt 10
The leave and tem the pt a sthembout
We livers Jim Willowshi 1633 [57]
The treatment faal a y feel. A Let sexum
The treatment faal a y feel. M hin med Wef hr 1923 1 800
Ac of pittel m fith leekt ated with rad minedles lio er a d Mr 1 13 fr 193 xx Dm not to all trat get patting lur geal po is the tatm tf lim ti-case the uppe just 1 M Noon as I oc R. Soe Med Led 19 3 i set Layor 1 87

Bite alt mpo anii la kylos in Blie ws se liat ral esecti W \ Star s Zisch f d se l'lat ral esecti o thop Ch 923 li 63 Ccatric l losure fith j d to at rmally long co n d p x s II lictilex / t alt l f Ch t at rmally 10 3 1 1270

Ophth 1 lgy i ts 1 tso t t! n 3 army and

al f e D MUNROA dt CLEMENTS B t M J 9 3 1 654 Th ce feef ct L Hank V g : M M th 1 | 435 93 435
D g ost m thod i el et w k II II MeGer E
gr M Month 9 1 435
M asun g th d t fa strab m s th
coscop mp met R I Liosu Am J Ophth st coscop 1923 3 8 11 839 Amblyop J R Prela J Okt h m Stat M 925 139 It mbly.pa R f Writer d T \ \ADL Am J Ophth 923 3 8 2 ocl dise] m nt f m avalaccesso;

Thu fg tmg tinth rem I ffo gn bod fmth ybli J Berr J Lact 93 JA Moro Am J Ophth 9 3 3 5 737 [88] The rit of focal fito 1 the product ocul diseases II M La pox Am J Oplth 973 [88] 8 0

Fin ha report of case f taremo alfrom th a b co : t alto c | W LIMBERLIN I Am M As 19 3 1 685 Bg g pa g pa jhtl lm t s i tracl teal 1 j t mil. ds boo jet alijet of metury cy d J Cars Ja Am J Ophth 1933 vi 843 Ocul r froublise sed l vi fi n S B MUNCUSTER Outernoubles sectives a Superior of the Superior of Su Ittus N th est M 1 10 1 2 163
A relate dvl gef r gnl b in th obt P P ox Am J I center 1 9 1 842
A case of chi ma W II Rosexus Am J Ophth

1913 3 1 % Sam t j cts ts a t dy of th causat te orga im D Heer US \ IMB II to t 410 Ad ! le ptersg m A (Bex err Am J Ophth 19 3 35 11 844 T may rect P C Doyse B ; J Ophth 1023 1 4 Cg tlm i pulleppls oing t de lp-mutif h ith ditat m sel S Horrit d O Ben re But J Ophth 193 4 [88] I bity of c m cul elem nt w the the an cour R Nov DER HEYDY Am J Ophth 0 3 1 8

Not hot ples sitters and jointh of the Strong The letting regy feet has that CB Strong Claims (Diblin 102) is Not Strong Claims (I Hawara Lain to jeet No Entology I diblin 1 feet has the strong Carlot of the Strong Carl tm t fela m with

pecial refer to a finited to the target end q e D T Vant Oh State M J 1973 645 [85] The pecil t I gam nti it I to n to hone gloom II Hirsters But J Ophtho 93 469 Blood pres the year dits I to a hamber orses I SMITH But J Ophtho 923 449 F d sthong sin plants II CLAF E Med T m

1923 l 7 1921 | 7
D 1 | 1th ptcn d i projetles pass ng
throgh the bitchind the globe II V WUZEDEM V
Mm J Ophth 0 3 35 184
Blat lglom of the rt: LB Bussiman ad C
M Swam Am J Ophth 0 3 3 1 1845
M occum (the horo) with the port fa

c e F E Max 1 \ rthwest Med 9 3 36
Som aggest n po th embry l gy of g
cresc t I C May Bnt J Ophth 9 3 1 r 11 1891

Som ues fithe lit lamp S R Cirro d W R Cassiny am J Ophth 19 3 3 730 [89]
Lepo tof e f pti tr phy i m lt ple scl o
A 5 Machat i A rk M J & Med R c 923 189

D as of the e ternal ear J I GUNTER Internat J Med & Surg 923 XXXVI 437 The p thol gy of deafmut m J S Fraser Laryn 20 C pe 1923 Ft 731

The neurological phase fot logy M C MYERSON N

York M J & Med Rec 923 ex us 631 The classification of deal ess from the st dpos t of ts p thol gy functional test d p d g gy M 1891 GOLDSTEIN LATYTIGOSCOPE 1923 XX 657 Pese t ton fa patient in wh mad go has been made of pla t c laby nth tis probably of co ge tal luetic

o ic n W G Sheweter Jr Laryng ope 19 3 xxxiii 781 Ost tis deformans a d otosclerosi G J JENKINS J Laryngol & Otol 1923 XXX II 344 [90]
Othus med nd us eq læ W F Schmaltz Te as

Stt J M 93 Otts media i f nts and chi'd en C D Swelt Calif rma State J M 19 3 XXI 400

d tinnitu Impro em t of hea g rs u ess h o c out med follo a system a systemat c method it ma gmnt L H LANIER T xas Stat I M 923 338

Zinc to tration in the treatment of chonic s pp ative

xi 337
Mat dis with tin leme tof the middle en
BEH MPSTEAD JAm VI 1 s 9 3 lex 66 [90] sual se in si dis I L Jones Repot fan Vrgin a Vi Month 19 3 1 439

Repo t of a case of unu I hæm hage following a rad c l ma t d op tion H L WHALE La cet o 1 CC1 Q3

Nose

t nasal fr ture I FR NR Ann Otol Rhin I & La yn 1 9 3 xxxii 768 [91]
E ternal al d formitie of t aumat e origin J D

E termal at a portratte on a manufacture, and the terms S g Clun A am 9311 409
An oper t nf saddle ose f tra mate or let org A Rémur Zutrilli f Ch 93 1 393
st des the physique let ton format in the mmon id 1 K OUTES v nd J E McCarvery
J E oper Med 93 tt 47
F 1 v f the sale at e nd nu sa claton J Eppe Med 93 xx 47
E It n I the a ali a te nd nu s1 claton
t f n t n (Abst act) J F O MALER I c R y
Soc Med Lod 93 1 Sect Lary El 83
The rott Nny x mi at I the a I use by
lo pr ject E S BLANC J R dol 1931 323 323 |91|

U su peet dit sals n s d ea T B Jonson Lancet 0 3 66

the u of su ton in d sea e f the a ces y
s M U cer Laryngoscope 93 xx sal Suru nf ct ons ch ld en E C Mirci EL Te s

St te J VI 923 1 331 At a lsi sd sea e y u g child en E Warson Williams P e Roy Soc Med Lond 923 i Sect Dis Child 8

The test must of che ruc hyperpleste must JH
Forter T State JM 93x 33
O the post e det focat on of the pheno da deth
mod us A Granger Jam M. Ass 193 lexi Tube cul

des of aden de with of the naso ph yn I M FRISCHMANN W tschebn je Djelo 92 1 363

Infection of the antrum of H ghmore R. S GOLDEN N th est M d 19 3 X 359 Conservati e treatment of maxillary situs d sease J

D Fours Oh o State M J 923 1 732 A chinical note o the after tre timent of empyema of the ma ill ry trum D nkers operation (16 t act)
D Sewell 1 roc R , Soc Med Lond 1923 XVI

5 ct Lan gol 1923 85

Mouth

Chr n cacta c chebits S Arres Jr J Am M Ass 1923 lxx 1183

I c I is fection of de tal o gin and the princ ples governing its removal W L SHEARER Inte nat J governing its removal W. L. SHEARER Internat J. Orthod at Oral Surg a d II adog phy 1923 | 773. The teatment of de tlepst O. Scirkburk Deut che Allsch E. Zahn chr 1923 | 87.
A. e of adamant ma. \ Scilosser Arch I kin Chr 9.3 (** 6.9)

D nection stud s 1th p ochet f om the mouth
P Lanny Deutsche Mon tsschr f Zahnh 1923 zh 337 Leuconi Lia buccalis II P DeForest Ann Surg

1013 1 11 474 In te on the p thology and su gical t eatment of tenc ket t sis ling at C G Comston Ann Surg 1023

Absce f the tongue C DUNET nd I MICHON Rev d chir P 1933 xlii 4 0 [91] C cer f tle tongue P F TRUESDALE AD Sug 1911

10 3 lxt 1 46 can ma of the to gue a d tons liar ! Ige resection SCHWIZER Surg Clin N Am 923 1 46 Car oma f th b e of the t gu 1 SCHWYZER

S R Cl \ \ \ m 9 3 11 456

Rhabd myoma of th usul with a c llect on of cases of h bdomy ma C \icony Brit I Surg 0 3 1 2 8

Throat

Ash thot facsen hhe dose nics arch for a fi h bone the gull tws fill wed by cell hit in the neck d bess i the che twll N MacLAY J neck d b ess 1 the chet will a viaceal J Laryng l & Ot ! to 3 x 1 5 8 The t atm t f larg f egn bod s impacted in the gull t D R Paters > J Layng ! & Otol 1923

XXX 11 5 3 S m cl caleber at s n the l gual to sil (Ab st act) T Arnoud-Jones Pr c R y Soc Med Lond

Cyptentntoit sls D J Davis J Am M Ass 1023 1 1 72

1 1 1 ep dem olog cal study of acute tons il tis a 1 acute upper e p at y fectuo s A B Honces B II
Jhn H pku s H p Balt 923 xxvv 344
Bat 1 1 g 1 be a ton on acute to still ts with
refe en e t epdm logy a d uscept bil ty A L BLOOMFIELD ad A R LELTY A ch Int Med 1923

XXX 1 483 I clin cal study f a ute str pt coccus inf ct on of the ph yngeal lymphoid t ssue (acut follicula tons li t s) A R I LLT: d A B HODGES Bull Johns H pkins

H p B lt 9 3 tx 330
X ay th apy n chr ic to sillitis J W BARCOCK

Laryago cop 913 xrt1 799

I ate re !t f llowing \ ray t eatm nt of chro ic lly nf cted ton 1 nd aden ds C A WATERS South M J 93 x 800

A new t hat; forth r m val ft n. ! theomplet a ldefi titchem t usefilb i gith p bles fig end unr 17 O M Strerr v llin i sM J 933 lv 359. The soft u loygn ti ane th in ton il perts s F M I MEINNER III M J 19 3 Ib 8
5 rg calenphyem fill w gt ll ct v S Stret

(a) g c pe 1913 x 755 O r mo gad n il II HALS Med T'mes 1931 La v E c be tott x

230 Spins Itll yn STiomson J Durdas (rant and W II Kelson Brit M J 93 712 t exting case (laryn, ltr I M J ffir so I thing see pe 193 xx 700 Itleriht alcd J 1 A c se of hæm ngi m Joses Jlay glath 1 1923 x 528 ly un c p. this clealtin with a htis scalt don teen t ses C B LAUNCE Lay per per g 3 x

Trache tomy dlaryng t ber I us E lo To oft

GM Med Aln 19 3 x 1 5

The u gical te tment f pe t at thyr alread d ct E O Jo 18 No three t Med 19 3 x 331 The truct re of the thyr I game C S WILLIAMSO 10 3 XX 1 450 A new fur ton of the there i and the life proof 10 1 2 0 Lat lab reat the light to s \ I CFLIFE A VENOT d H BO R | clr I 1923 xl 393 De sith thyroighnis the relation of your log logy 1 H Drocker J Laryng | & Ot 1 19 3 x The different tion form I nipathing him 10 1 lx 415

Brain and It Coverings Crant 1 Nerves

The mangement of cute bana juris ON MELAD Monsot Nid 923 65 Minsot Aid on 3 65
Brain jessellow giet in fith come caret J
Brain it with well with fith come caret j
Brain jessellow giet in fith come caret j
Brain jessellow giet in fith come caret j
Brain with fith come caret j
Brain with fith come caret j
Brain with come caret j
Brain j
B 1923 cf 2 200 The fraid compace by the Compace of Child to 3 383
P ct fth ct n magna JB Aver J Am M A 5 023 lvs 358

The guter p tin J C WADDELL Sel & State M J 923 1 35 Th gotter pr blem W 1 Its \ bra-ka St t M 354 Ach al toy factr Il Creaman Arel f kl Chr to 3 c S43 [91]
Alm ted o thre k f cuteg t lachlirnsh m
F W YDAMS III N CR SSIEV Lancet 10 3 CV [92] I ad less the pethy Im WCze Arch Ped't 19; xl 7;
The quarters 1 pe thyro 1 m second 1 pe t
I liran N 1 M J & M d I ec 19; 3 339
Any Herapy t schyperthyr from H. K. Di.
HAW Oh. Stat. M. J. 923.2. 7.3
Sec. I ry operat. petf ron 1 f r thyrot
C. Bital. d. K. Kivard. J. M. so. n. tat. M. A.

Onrd term toft egt withmit bold d d cti ns R I I teas Am J Roentg nol 19 3 it sed list or Community Dut ch med Web chr 10 3 1 x 335 Vice the total labors I phthalming to 1 C Si rest Irett rigas ex 260. The pathley fight with p tool rel ence t Baselow d. a. Virotta. Vifil Ch. 193

00 The d gm | 1 med cal treatn nt f (ra es d H M k R s Oh State M J 9 3 700 Th ope at t tment f B sed disease disease f) Hittp: Ra to D tocle m d Web schr 923 xl 338

SURGERY OF THE NERVOUS SYSTEM

I phalt mitg t tim 1 it R I ian M sot Md 93 585 Tweater of bran beces, with m k th tiggr fthe binlfil Glirup la toi C1 9 0 La lv d gn Laiving in interior of the second of the sec ligi bith I il b gpo 923 1 085 Fumors [th Illm P K MINIS N Y K

M J & Med R 03 44
Th ampt m thypsphy ltm 1 O Prt r The amplies in Spirit is a solution of the pit of the p t case of me ngoc core men ng ts i llowing head inju , D G Richey and T R HELMBOLD Am J M

5c 1923 chrs1 559 The t atment of a facial neuralgia by alcohol in; ctions L W FRANK Kent cky M J 1923 xx 646
A ex ew of the Present t catment of trigem nal neu al gri I VERTHEIMER Lynchiz 1923 x 463 197; Serale of the supen laryngest nerve M LEVY Bull et mem Soc m d d top de Pa 9 3 3 5 5 5 5 5

Spinal Cord and Its Coverings

Gonorrhoral myel tis P M PHIYER a dN L TORSTER 1 ch Int Med 19 3 xxvn 530

Vertebral le n cau ng spinal co d vimptoms I Bass r Northwest Med 923 x 1 342 Utypical t in reof the spin 1 o d N Shingre J lim In t II meeop 923 x 1 3 2
The dagn 1 a d tre tme t of tam rs of the pinal

co d r ol 1 g the corus and the auda equin WO La pl gia and ca da equina sympt ms in lympho gr n lomato mal g 1 (Hudgkin s di as) I' P Wence

Oint I Met >3 x 1 1

Periol cral Nerves

Cagla of the perpheral news L Ries Betr z A Chap is nx 6;
I perme tald lc! beer at on nth tr tment
I flace I parlys ND Rose Med I \ strl

923 11 35 Some results in a na tom si & Ballanc Brit

1 S E 10 3 20 1

SURGERY OF THE CHEST

Chest Wall and Breast

Ope t et estm nt f t phic hype trophi pendul us beats Il Araska, Mu hen med Welnich 10 3 Ixx 62 Tum rs I th b ast B B Davis h b ka St le Jio 3 1 34 Butlg netgtn i mammary gl d timors during op at on 1 Lanu Muen he med Wh schr

023 lvv 40 Laca ma of the breat J S Rob an Atlate M

J 923 x 1 13
Cance of the brea t 1 1 gic 1c d at1 sin do
th apy M J Strit FIELD N 1 kM J & Med C 1 23 497 Lympfor hora 1 sc t I ympfor hoea ise t t ling ut the a flator the treatme t of cace ith heast lexicite L

17 (99) Reset of the the will nel ourse of marner to car ome the per alico siderate not the final rults i will be the kind of the final rults. Tieh t path 1 go of P g tad a e F Lro t(a) di chi 9 3 1 473

Laret d case of t mppl G L CHEATLE But J Surg 0 3 1 95

Trachea Lungs and Pleura

Tra brot my imp dt chn q e E B G tt Larin F cope 0 1 11 788

D ect neu ti ation of paralyzed muscles P ERLACHER At h f rth p u U fall chir 19 3 x 1 649 Ners avul on in gainful co diti na du to a giospasm

A LAEWEY Z ntrall I f Ch 19 3 1 1346 The end re ult of suture of the ulnar nerve BERARD

von ch 923 xx 50 [97] Late sut e of the ulaar nerve with anastomosis of the m dian by impl ntation in a case of ection of the ul ar an I med nn ve by a ar wound restorat on of function in the uln'it nerve alone Berend Lyon chr 1913 t

Sympathetic Nerves

Sympathectomy I Seifert Arch f kln Chr 1922 238

I the e p nences with ympathectomy in cases of delayed consolid to ulcers of the leg etc M KAPPIS

The teatment f ep lep y by sympath ctomy

Torster Mue ch med W ho chr 10 3 lsx 2224 1 ound of the villa the no mplete ection of the b a hal pl us ameli ration I sory nd ci culatory ce in the hand by arter al sympathectomy Santy Lyon chr 93

512 The e d coult three , ars and three months after a p rif m al sympathectomy for a p rfor ting plantar ulc f flon ng sects n of the sci tic ner e Legicur Lyon chi tora v 37

Miscellaneous

As mpl method for meaning the quantity of albuming in the reb sp al fluit by the card Canteloube raching him meter J C RECAN J hm M Ass 923 I t 285

The su gical in tomy if the intripulm nary blood

cs-els and the spiratory pa ges 1 Methikors Arch f Lin Chr 1923 cx. 460 C llateral ci culation in chronic obstruction of the

p lm n y ns and its rel ti to air embolism follow ing art d g o tic a d th rapeut c p ocedures (pn u m 151) h Schlafpfer Surg Gynec & Ob t 19 3

Anoth b onch is with hing am riber the putum and thout abscess of the the high ribert PETPETAKIS and thout abscess of the selection of the part in the second B Il et them Soc m d d hop de Par 19 3 3 s xxxix

Indothora c pne moly s R Kornson Muenchen

Theorems of the mony S. K. Rokeson. Whenever med Web. Sch. 19, 54, 734.

The central fubbroulous by artificial pneumoth. M. Gendon. Med. Time. 9, 31, 235.

The present policy of the unguest treatment of pull.

m nary tub r ulo is J GRAVESEN But M J 1923 ii 505

B locopy and re-ophagoscopy W W Pragov J low that M So 9 3 1 4 8
Fo e a bed es in the b onch I I Dierrich and H K
BERKER J 1 M M L S 9 3 Is 7202
Fore box es in the b onch S Israel Te as State

M 19 3 at 3 6
Int repet 1 th racopuncture for the remov 1 of pene t at gp 1 ctil s in the lun C Jackson thin Surg 0 3 t x 11 50 Lun baces i ll en g 100 lectoms R D ilway

J Lancet 1923 tl 1 505



1 st dy of 1 000 consecutive ca es presentin gastrointestinal symptoms II S WILLSON J Lancet 1023 ďχ 2

Report of b ign tumo s of the gastro intestinal t act D A Brown Ill ois M J 1923 by 240 Results I deep roentgen tre tm nt of gastro intestinal mat guanc s W A Evans a d T Leicutta Am J

Roe tgenol 1923 x 793

Diagno s of d sea es of the stomach and d odenum H A Brice Canadian M Ass J 923 Mit 724
Ga tric syphils I NEUMANN Wie klin Wehnschr

1923 XXX 1 431 G stric syphilis report ftw cases proved anatomical

ly W A BRANS ad K A MEYER Surg Gyne [104] Obst 10 3 x4xv 127 Syph hs of the stomach W J LARMORE S rg

[[04] Gynec & Obst 1923 XXXV 133 Hype t ophs pylo ic sten si with large mult ple ero sions report of a ca e in n adult W A Brass and I

Prior Illin s M J 1923 x1 68 Pyl ric stenosis f 1 fancy H L Brereton J Io a State M Soc 1923 xm 4 5

Operati e t eatme t of co ge tal pylor c ste o is W

2.5 Tone ephnt's in pylone d duo le al obstruction re al insufficie cy complicating gastric teta y G E Brown G B Eustermann H R Hartman and L G ROWNTREE Arch I t Med 1923 xxxu 4 5 [104]

The ethology of g stric nd d ode al ul ers G E EBRIGHT Calif in State J M 923 x 423 The somat c and p yeh c constit ti n in ulcer of the stom ch R TSCHERVING Arch f Verdauungsk

R ce ty wsconcern g the natur of pept culcer of the st m ch nd d od num G B GRUDER and E KRATZ EISEN S mml zwangl Abba dl a d Geh d Verdauu gs u St ffw chs kra kh ro u 5
The lu cti nal ignifican I the M g nstr sse and ulcers ne the pylor s V ORATOR Mitt a d G en.geb

d Med u Chr 923 xxx1 725
The p thology and t e tment of roe tg nolocally

d m n tr ble g stric ulcer J BUESCHER Arch f Ver dauu z k 1023 X1 3 7 Acut g stri perf at on W Hore Muen he med Wchnsch 10 3 lax 77

The symptom and path logy of ! ers of the stomach a dd od n mp if ati g to the fee bdomn l ca ity W Sp ck Beitr z kim Chr 923 v 537

Ra e c mpl cat o s i p n tr ting gastri ulce s A Lenrangern R Arch i kin Chi 19 3 c xiv 661 Perío at d'ulce of the stoma h and duod num F G Du Bose South M & S 923 laxxy 503

Acute pri t ns of th tom cha d duodenum C L Gibsov Bo ton M & 1 923 c xx 43 [105] To rol f the v gus fibe s n th ungical tr tm nt of gast i ulce Gravolle Bru lles med 923 is 000

(106) Med I a d d tet c p stop rat e t e tme t in case I gastrie ule r H CHUR Wien med Wehnschr

The d t ic after t atme t of patients p rated upon g tri ulc r h ISAAC KRIEGER Zischr f erztl

F ribld torra x 310
A case of lee n he on the greete curvatue m an per t d stom ch F W ster F rish d Geb d Roe tge tr hle 9 3 xxx1 14
Failure aft rope at f rgastri a d duod n l'ulce

M F IEDEMANN D utsch Zischr f Chi 1923 clxxix

Ga troscopy in thirty cases of gastric neoplasm R SCHI TOLER Arch Int Med 19 3 xxxii 635 C remomata of the stomach D J DUGGAN Boston M

8 S I 023 clxxx1 471 Carci oma of the stomach and its relation to preceding

ga tric d sea e W GOLDIE Canadian Pract 1923 zlvni 308 Prog ess in the diagnos s of cancer and ulceration of the stom ch by means of cinematogr phic exam nation by the

entgen as A FRANKEL Prog de la cl n Madrid 1923 XX 1 61 The operative curability of carcinoma of the stom ch D CHEEVER

CHEEVER Ann Surg 19 3 lxxviii 332 [106] Some causes of intesti al obstruction J W Thomson Br t M I 1923 11 597

Acute intesti al ob truct on in nfancy and childhood E L Rice J Oklahoma State M Ass 1923 xv 321 I case of acute 1 te t nal obstruction caused by volvulus in a hermal sac W H MAGIE Minnesota Med 10 3 ¥1 300

Intestinal occlu on due to biliary calculus L Intévez GARCÍA P og de la chn Madrid 023 XXV 3 Two cases of ac te ntestinal obstruct on due to the im paction of gall sto es C P G WARELEY B it J Surg 1923 XI 380

II gh intestinal obstruction due to intern I in arcerati n f the bowel after gastro enterostomy H STEINDL Deutsche Ztschr f Chir 923 clxxxi 126 Chronic 1 testinal stas 5 and cancer W A LANE Brit

923 11 745 Ch mical cha ges in the blo d of man after acute intes tinal betruct o an indication fo treatment with sod um

chlonde R L Haden and T G ORR S g Gynec & Obst 1923 xxx ii 465
Es enti I f ct rs in the treatment of intestinal obstruc t on T G ORR and R L HADEN I Missouri State M

Ass 10 2 XX 3.10 bercul us enterocolitis W S Lexon M npe ota

Med 19 3 v1 572 Int ss scept on n children H B HAMILTON Nebraska State M J 9 3 1 362

Spontaneous reducts a of an intussu ception CROOKS Pactit oner 1923 cm 208 I ca e of obstruction of the small intestine complicated

by tet nus Anobiaica M enchen med Wchnschr 923 lxx 845 Intest al b truct on in a newborn infant associated

with an unusual malfo mat on of the small intestin T T Higgres B it J Su g 9 3 x 38 He s resulting from cysts of the mesent ry M Bau MANN Muenchen m d Wchnsche 19 3 Lx 843

V Ivul s following pasticule s II STEINDL Deutsche Viol stollowing posterier's 11 offender Detersion Stech f. Ch. 1921 1831 4 3 Syphilitiest icture of the small intestine W. K. ANDER Son and J. A. C. Maczwer Birk M. J. 19 3 in 764 Acute postoper it e duodenal pa ally s after Bill oth I

S I OSTLIVY Zentralbi i Chi 19 3 1 1367 Du den idi tato A Levin N O lea 5 M & S J 1022 lxxv1 178

Cho i art iomesenteric duoden 1st nosis with chroni ulcer f th stom h II ZOEPFFEL Zent albl f Chir

The p thogen s f chr nic duodenal ulcer from the po tof vew 1 th m cha an tom caldisposit on of the d od al bulb C Rompe B itr z klin Chir

C T 1 34 11071 The symptoms of duode al ulcer J DILLON Arch f rdanung kr 19 3 xx 313
Pathologico natom cal changes in the duodenum in

ulce and the manufestation in the roentgen p cture P

CLAPSONT We h Abha di a d f s misch d n kt Med 10 3 x I The treatment of du d nal a d gastr c loers A C

STRACHAUER C nci ati I M 1021 187 Sacculit's f the j junum with acut i te ti al bitrue tion d et embolus of a b ch of th supen mesent no artery Il Pinni R C L L Burnin a d C F M SAINT Brt J S rg 0 3 x1 3 4
A study of the g tric cr tin in rel tin t the
path ge esis of jej lulcer S Cossio in tld

chi 19 3 535 The smpt ms nd t l gy f po toperat

rat jja Achfklen ulcer W KOE NECKE B d E JINGE M

Chir 923 cxx1 3 6 [107]

J 1 pept 1 de elop g fter a B ll oth li
p ton lo car m B BREITAER Zentralbi f Chi 1923 1 34 A cae I ham go end th h ma of th sleum M F

BLA. D A S MASIES dII T LAR Am I Ds Child 93 x 1 379 Il colest s t l calcons S k S no So th M J 923 737 Obervinc mgmera 1 m der acas

cti nof the pr malla get t at H Zoeppren Med Kl 923 The use f sero sg ft aft thermo f fm mb es in memb spen lts d pen gm d tis P Man

CLAIRF B Il et m m Soc d ci d lat o t xlix on [105] Ulc att e col tis H ROLLESTO La 1 1923 cc [105]

Ulc rate e c lt HORDER T LOCKHERT MEMMERY IPWICINCASON d the Prel Soc Med Lod 923 1 Set Poct 96 Th te tment f b tructo of th ln A H Burges But M J 9 3 547 d nastom f the colon

BURKEY S HAIL WI J 9 3 547 The tchinque feet of diameter free color f tumor J P LOCKHARY WICHNEN IN I OC R) So Med Lond q 3 Sect 5 72 60 Cr 10ma film ! I'll g b ne tst lob struction R I RONLANDS fate t J Med & 5 g [110] l ob 10 3 X X 427 A new method facpt enit dan tm I g t stine f C I EE D ts h Atsch f Chi 9 3 clan 402 Volulus f the care m H Jacobsen Acts chiru g

Sc d 93118 Adhe as fth ppe dix a so sted the obstrute of the atst J VI Mo a III M J 193 I th obstru t on 273 The h pr d M \ Haples C cn t I

M d 923 1 39f St pt cocer phigm n ith ac d g l seco dry to an ufl mmatory tum fth l t t t d to t ch ph hs H Sauer D t h Lt h f Ch 93 t 1 d to clava 1 D t ultisofth sgm ddis! g bco ret n i to the un y bl dd A Scar z Sig Cl N Am

19 3 u 454 A lys f the natio oc lys i the natio oc g th igm S s v Jarose Ewitsen A ch f kl n Ch igm d flexu

83 Theelt The cit fil gmit ligmt Fours ad Mirror le dechi Par 923 la 61 [111] Thidg dt atm tofd fth tm FGREY ON tilati MJ 93 7 Bengn t t s fther t m L A Bur J Am M As 923 l tal a nom 1112 I pr t tal a nom Zt ch f Chr 93 clx 12 48 K NATI E D t che

C cer of the rect m treated by rad oth py afte e Is a f th d seased i testinal segme t co dti h along o e yea later Alglave and Saleil. B ll et mem Soc de h de Pa 923 las ro [113] La dil i ide is in the tratmet of ca of the rectum e at amp tion d submen esetin I J Kaisfr B tr kin Chr 923 cxxix 503
I be loss i th nu d rect m. C. J Drutck Am J Clan Med 10 3 tx 65

Liver Gall Bladder P ncreas and Spleen

Experimental studies neering th t f nga f 1 ! rub \ R I ren Bull J bas Hopkins Ho p Balt R port from ob ratos the ph n lt trachl roh thalein t t s m s s f determinant lis rf ti TRIL YWALD d W H GA TT Am I W Sc lr co 11141

Id gocarman as a f ct on al perme bil ty t st f th U live \a d C L larerre N \o k \ J \ 8 Make 03 ex 350 [114]
Later the y brefs nof bl to the pen
t ale ty d the prilm tied sea petures in
gery fith litract Kuztry R D tehe med Web h 19 3 1 005 The rol f th lymph tes the bsorpt of blep g

BLOOM Bull Jh s II pkin Hosp Balt 1923 XXX The tinnpat yets of the her W Senck trhfkl the great Sa Pmaryl Had ma(hptm) AFB Shaw

Tumor fith it r sect r yhtige

1 t s J Silling, B li et mém Soc de ch d P [115] 93 hr 3 ht 33 A d tal mplet e of the hptcd t A

A d tal mplet e of the h p t cd t A
Scrwzer Srg Cl N Am 9 3: 466
Th p by logy ith trah p t bl ry tem and t
ppl cat t og c ith rap y C G Hery Am J M
Sc 9 3 i 5 6
The p t i g i g i bl i d A W C orcer I oc
R y S Wed Lond 9 3 i Sc t Plecto-Th p

Pr tdiyptblm rgad t gllbldder f
t W C LLV gez k I Meyer G 1 Res F B
FAYLO d I FASTON J Lm M A 193 L 974

Sm diffult thed g sf ho cgall blidd d is DF surge d M W S rit Wee n M J s f ho cgall bl dd i l'ía t (thl)jad ttmptt tbls 1 tity CM Joves dGP Mro Bt t blish

M & S J 19 3 1 35
Sub cut p 1 t of th g ll bladd th trapen
t laboc frant pernc 2m W A
DENNIS 5 g C N \text{ N m 9 3 37}
Sub c t p f t fth gall bladd with interpen
t l b f m tion W \ D NNIS bu g Clin N
t l b f m tion W \ D NNIS bu g Clin N

m 931 33
Afith exprim tai tinb t the term of figures of the W Bar M d Pes 923 n
Id to fr perat tree to the lithing A H
LE MANY W kl Wh h 93 448
LE MANY W kl Wh h 93 448 BURG A h f kl Ch 9 3 err 7
I d at s f pe t on th g ll bladd RN G La d KLEINSCHAID Deut h Zt h f Ch 0.3

Some esults of cl m all bo tory tests in the d agn 55 of van 5 types of jaund ce \ X S Barr Gla g w M J

114 1023 D S Indepe de t bil ary rete t n during convalesc ce from an icteru of spi ochatal g normal p gment ry chol am and simult neou ch l na A Lexierre and J Lévesque B II et mém S c méd d hôp de Par 1923 35 T 1X 5

C g nital air sa and te oss of the ble ducts P DAHL IVERSEY a d \ J SCHIERHECK B bhot f Læger 1023 C 5

The diag osis and m na eme tof stones in the common 700 duct W D HAGGARD J Am M As 19 3 1 (116)

Rep grofth c mm bled ct L L MCARTHLE inn [117] Sug 1923 I 11 9 [117 Cont son of the p ncreas a d falle tr mat c cyst P Mocou or and H Costantini R de chi Par 1921 11181

De mord jst of the pa c as W A DENNIS Surg N \m 1021 A O WHIPPLE Ann Surg Pane tic asthen

Pane Consistent 1 | 1110]

I sul 77

E dothel ma of the pl n a study of t oca s with a eview fihelt at fpr m rym lina cy of th pl c

C E Smith a d G \ Resk Arch Surg 1923
[119] Anat mical d experim ntal contribut on on con e at e sure ry of the pleen I VOLKMANN 1 ch f kl

Miscellaneous

Chir 023 CXXV 3

D ctad indire t j ries f the p enchym to sab-domin l i cera F J Kaiser Mu che m d Wehn

schr 1923 lxx 1048 scar 1923 lix 1949

The dig 1 fintr abdom 11 jut s d to bl t for M Grashann Ze tr bli f Ch 923 I 1397

The thol gy fa ot to I the 1 tem log n B

TENAROFF D utsche med W has hr 19 3 klx 15

Intra abdominal hernix N H COPENHAVER **1rch** [119] S tg 1923 V 1 332

the A O WE Histogenes s of intra ab lominal g RESCHISCHASKA Ve handl d Russ Chir Kong Petro grad 923

grau 923
Rett pentoneal I poma L Gree Spelder and R B
BETTMN Surg Gynec & Obst 19 3 xx vii 468
I d cations and contr indicat ns for the u e of pneu
monentoneum N W SMERNOFF Verhandl d Auss

Chr Ko g Petrog ad 1923

A sumpl fied meth d for the production of artific al pneu moperato eum O GRACERT Zentralbl f Gynaek 1023

xl 11 441 Auscultatory findings in thee minat on of the abdom n C ROESEBECK Mitt a d Grenzg b d Med u Chir

1023 TXXVI 450

The diagn s of acute abdom nal conditio s J M
CLIRE South M J 1923 XVI 799
The diag osis 1 cases of right sided abdomi al pa n I M MAYHEN and A L SHITH, Colorad Mel 1023

33 275 Subphren c bacess D C Strats S rg Chn N Am 1023 H Q25 [120]

I le tio of the di ph agm un lateral phre cp alysis A rad logic l study the sp ci l refere cet the different ald gn s J M Morrison A che Rad of & Electrothe app 923 xxv 353 xx iii 72 ii ele tion of the d phragm and un lateral A note

phren c paralysi C WRIGHT Arch Radiol & Electro therapy 19 3 xxxm 187 Daph acm tic hern T W LIPSCOMB Med I

Au t al a 10 3 1 440

Co gen tal d aph agmati hern a f the right s de its diagnosi n lf P V Sriusov N 1 k State J M

923 ti 408 Arch Pediat 19 3 1 647 Re ect of the daph agm 1 mal gn nt tumors E. HESSE Ve handl d Ru s Chir Pir goff Ges I etr grad

19 3 Il ling of wou d of the diapl ra m T NAEGELI Dut ch Zt h f Ch 1923 cl vt 109

GYNECOLOGY

Ute us

The lymph t s f the terus GODARD R de hi P 923 The lymph t s f the terus J Levels and H ODARD R de h P 923 d 2 9 [122]
The Ol has e op at n f su pen on of the ut ru [122] I GRAVES 'm J Ob t & Gynec 9 3 1 37 [122] On the c fprol pse of the terus \ M [tpp Med The 93 h 5
S M 1 1 colpopermed 1 s in elderly me A Lab
name T to this f Gyn ek 93 xl 1 1394
Left r ti s 1 th u rus S Joseph Vi d klin 193

973

The haling far ternew nd mito sing stripd mosel D Minteres JP th & Beter 1 93 to

The team tofth ut nem cous membrane A SFFIGER Deat hem d Whinch 93 lix 057 Ut me barn this a d mud b this 1 TURAN Wen md Wehn ch 193 1 Id p the m high a a d N ay the ps E L Id p the m h gia a d \ ay th p; E L STEWART nd H M TOVELL Ca ad an M A J 923

X31 745

Tube cul s s f th ute me ce x O L Borrago and A J PEVLOVSKY B l de la Soc de obst y g e de Bue o Ai es 923 11 93

I softh cer 1 fthe uterus 1 J CAVIGLIA Bol de la Soc de ob t y gi cc de B en Ai e 1923 u (123) s repo t L FRANK

Ad nomyoma of the uteru tucky M J 19 3 xx1 568 Ut n e fibr m eighing 39 Ut nie fibr m eighing 35 lbs case r pot C FARMER Kent cky M J 923 v 1 43 I taut nie bleed ng due to uter ne f b oids TEDERAT

Gyné ol gie 923 x 1 321 Lyt am cosal v dge resects a and the interp ton of

thep I p d and bleed g myomatous uterus Mack ENRODT Zt chr f Geb rtsh u Gyma k 923 l xx 1 Hyste e tom es i r fib omyoma C G Roberts J

Nat 1 As 0 3 X1 251 The result of a serie of ut rine fb omat t eated with

t dum S lange B ll S c d bet et d gynéc de P r 9 3 v 1 69 [123 Ca cin ma of th uterus F L Adam S rg Chn N Am 031 123

The tr atm nt I ca c rof the cerv vof the uteru FAURE P esse med Pa 1923 XXXI 451 [123]

Ob reat ons n fifty c ses of car oma f th tttd with rdum M DONALDSON and R G CANTI B at M J 1923 1 12 [124]

Gyn c & Ob t 19 3 xxx u, 47
D gers of teste s on f mal gnant tum re pa ticul rly

f car in ma of the crv y F Vocr VI nat chr f G burt b Gyn ek 1923 In 67

On the treatme t of c rv co-ut nn can by hysterec tomy foll wing ad m the py R Movon 1M A Gosser Bull et mem Soc de ch d Par 923 xlix 626 [12]

F llow p es lts 1908 cases fut n e ca cert ested by rad m H BALLEY nd W P HEALY Am J Obt & Gyne 1923 4 R forms f a coma f th uterus AUVRAY B U

R forms f a coma f th uterus Auvern B II Soc dob t degynd de P 9 32 280 [126]
Di cu si n of some c ses f ad min fficacy n anc f th body of theut rus Op ar Gynécol gie 19 3 km 278

"Lat harm h ge n a c se of total hvst ectomy C NOLP Arch de tet gae 193 o7 [126] Four c s f eter ga l fist l following by t c tmy G Corre 19 ch 1933 x 380 [126] Tw c es f ret sgin l fit be f llowing by t rec tomy GARET Lyon chur 1933 xx 380 [126]

Adnex 1 and Peri Uter ne Conditions

The ge ess f th ad n my m of th rou d ligament H Kanherr M ts h f G burtsh u Gyn ek 1923 lznt 325
F th stud s n t bal inflation H GUTHMANN M n tsschr f G burtsh u Gy a k 9 3 1 55
Th gl dof t mal creto nof th hum v ry P

Int penton al hem thape fo n n nga [127]
serve Cymfeol ge ng gran yog poptu fa
li um H ZUrrate. Wel f Gynack 19 get x-18
T b culous ran yst with a pot 1 th d s
be ed by th thor G L M sect. Am J Obr &
Gynac 193; 478
gynac 193; 478
d Drev S g C Lu N Am 9 3 333

MOLLONGUET DOLÉRIS Gyné ol gie 9 3

Bill te all cy te epith lom fith ov 19 exturation with cur the edolineaper is J LANNER'S Bull See dobt tid gynec de Par 921 245 tasse cueltly soenteen there py with militain that the curley roenteen there py after surg ry M Srielli A tipot to pa 1021 mil 426

Exte nal Genitalia

M Ass 10 J XVI 333

Cyst cele d high r ctoc le T J WATKINS Am J

Obst & Gynec 19 3 389

Mi cettane us

Th significa coof the rate of s dime tate of the blod corpuscles in the d gn of gyaccol gical diseases P Secremican and Noget A ch f Cyna k 9 3 cmx

'in m hes f pam a ti ity R. T vov Jascher Jah esk f aer ti F ribid 19 3 x 1 28 A h cal tudy f pely inflammat in wom E A Wilcov J Med Ass G org 19 3 x 400 The result fradiat in thet atm t finflammatory di ses (wom n A Landeker Strahle therap e 1913

di ses I wom n A LANDEKER Strahle therape 1923 xv 24 The t tment of ssc n f ct and to mplica t s n th female C W BONNEY Am J S rg 1923 xx 11 240

The thrombocyte triunclen eterochecoding and the The thrombocyte trium medicati R. Honnuno. Ze traibh f. Gynna k. o. 22 traibh f. o.

The tening of peritorization of the fine peritorization of the fine peritorization of the final peritorization of

OBSTETRICS

P gnancy and It Complications

Radi graphy thefts in ute TICANDY Ath R dol & Ehet therapy 0, 3 x it 40.
Th wag I floor the d fp cgm y R APE Ach f Gym k 9 3 cm; 5 Skm chang s p gm any A JOSO Y Z trall of I flut Ge chieft k in 033 m 360 COLLAND and I flep I doo do man do may ge une of t of the world of the chief with the sale was the marge use of t of the chief with the marge use to the the chief with the chief with the marge use to the the chief with the marge use to the the chief with the chief with the marge use to the the chief with the ch

Glycos n fprega cy dit lyd goos by blood g det mant s W Schw et M nats h f G b rish Gyn k 9 3 in 69

Acet una in pregna co Pritti nd Licitiu. Nn W ki Whisch 19 3 xx 600 Acido ndp gn cy I U compl t dp gn n y O Bosenany a d J k there Zischr f d ges exper M d 9 3 txxii 6 i Zisch f Geb rish Gyn ek 9 3 ixxx 3 0

9 J. HAR 10 t Semi E.L. Kin. d. V. H. GLADDEN N.O. le. VI. & S. J. 9.3 is vi. 75 The p. phyl. us and t. tme t. fel. Imp. E. S. r. DEL. ket. cky. V. J. 9.3 x. 546 Ecl. mpsas. E. Zwerzel. M. ch. med. Wchnschr

9 3 lxv 977
Eclamps tiology d t eatm t M H NEWMAN
South M J 19 3 xv1 786

Eclampsia d th t zemias f p egn cy following specific d se II Sellhers Med kl 93 ix

Life saving effect of unilateral decapsulation of the kidney in coma of eclampsia A Niedermeyer Deutsche mei Wehnschr 1923 zlix 756

Blood chemistry in the study f nephrit s a d the to amias of p egnancy L H McLean to the est M i 1923 XXII 345

Ti complicat n of purpura wth gestation G L
Mosner Med Herald 1923 xh 69 Th trustw rthiness of th serium d gnos s of lues in pregnancy d the puerpenum L HANDORN and I Grorge Ze tr lbl f Gynaek 9 3 1 1 898

and tubercul Marnage peg cy parturit o (129)

E Ward La ct 10 3 cev 557

The management i the pregnant w m n with pulm n ary tubercul is M Vorov Gynéc et obst 1023

11291 41 Ther ult of supravag lamputate a a d ca trat on in p egnant tube culous pat ts I SIEGERT Med Klin 3 XIX 50

Hemeralopia E KALFFE Zentralbl f Gynael 1923 88 xlvi Ciol I thias s and p g ancy H H Schmidt Arch

fkln Chir o 3 c , 1 G g enous cyst tis d to a r t offexed incar erated B SCHWEITZER Z ntralbl f Gyn ek pregna t teru

1923 1 1 40 ld omyos and pegnancy Ascuttetia Ztech f Geburtsh u Gyn k 93 l 144 Myom t of th teru d preg ancy J C Litzen BERG Surg Cln N Am 93 1 185

The practical peet I co tracted pel 1 E D Plass
J Mich g State M Soc 1923 xx1 419
The t atm toll abortion W BALLHORY Mue chen

med Whischr 1923 lxx 830
Thit eatmint fibort in J Geogenberger Zent al bl f Gy ek 1923 xl 11 100

The res Its of t eatment I bo tion with quimine give by m th R Poscitaciter Wien kln Web schr 1023 1 572

If w the pathol gye plan the clim 1 symptoms f nd ector c get ti] O Polaz Boston M & S I 1023 ctv 433 [130] in ectop c ge i ti 1923 cler Lctop c gest ti with a report f cases T W August J Io a St te M S.c. 93 us 427 Bloody d col ti n of the el II Strebe Zischr f Geburtsh G el n t bal preg anca

Gynack 10 3 lxxxvi The de dual reaction n the toe not teral or be teral to bal pregative and notice that the method to the teral to bal pregative and the teral to be the teral or t 1923 lx 1 78

Ovari n piegn n y with bee ce f the tube on the affected de II Fichs Minatssch f G burtsh u

Gyn k to 3 len 6t

I abor and Its Complications

Rect I e minat n 1 obst trics B LANKFORD Rect 1 e minat n 1 obst tires 11 LANKFORD

south M J 03 783

Th d roo spu it g p M in in obst tires L Drossin

1 ternat J Wed & S. 72 19 3 1 443

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

2 sash a nd a sigess 1 labor R Mirchell

3 sash a nd a sigess 1 labor R Mirchell

4 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

5 sash a nd a sigess 1 labor R Mirchell

6 sash a nd a sigess 1 labor R Mirchell

6 sash a nd a sigess 1 labor R Mirchell

7 sash a nd a sigess 1 labor R Mirchell

7 sash a nd a sigess 1 labor R Mirchell

8 sash a nd a sigess 1 labor R Mirchell

8 sash a nd a sigess 1 labor R Mirchell

9 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a sigess 1 labor R Mirchell

1 sash a nd a 1923 1 : 6

copolam em rphi seminarcos report of ta use i the third the said del ries in the Bries Hospital O H Schwar and O S Krebs J am M ass 10 3

081

Painless childb th by synergistic methods COWAY Mm J Obst & Cynec 1923 vi 456

The value of sacral nerve block anaesthesia in obstetnes B E BOYLE 2 d W R MEELER J Am W 455 1023

(131) lxxx1 1070 Dystocia n an eclamptic due to a case of cystic hygroma

of the pectoral regi n of the fetus F I Itaus Am I

Obst & Gynec 1923 1 475

Dystocia of the shoulders 1 head presentatio s J T
WILLIAMS Boston M & S J 1923 clyvix 465 Deliv ry in cases of facial and frontal presentation

A Sette Lim Wehnscht 9 3 11 1556

D cussion n the use a d abuse of obstet ic forceps C BERKELES I FAIRBAIR'S and others Br t M I 1023

An unusual coident during deli ery at term B H MARTIN a d A S BRINKLEY VI ginia M Month 9 3 1 457 The pre nt on of fetal asphyria R A BARTHOLOMEW

Am J Obst & Gy c 9 3 1 418 Pressu e n the ectum a s gn of imminent expulsion of the placenta F Vov Mixulez Radecki Z ntralbl

f Gynaek 1923 l 11 000 Manual extraction of the pl centa T R GOETHALS Am J Obst & Gynec 1923 1 3 11321 The et ology and tre tment of retents of the ni cent with special reference to its pathologic etertion. H. A.

DIETRICH Ahn Wehn chr 1923 11 461 Compression of the orta in obst trical practice P
RISSMANN Zentralbl f Gv ack 1923 | 1 960
Hæmorth ge fter | bor G Becker Muenchen med Wehnschr 1923 lxx 949
E traperitone I cas rean section A Schilling I

Iowa State M Soc 1923 III 445 The utenne sca afte war n ectio I I AUDE

BERT Gynéc et obst 923 viz 487 [133] Pue perium and Its Complications

An outline of postp tum c e II Thoms Am I Ob t & Gynec 19 3 The first eatment of obt tri alca es H R FAIRFAX Virginia M Month 1923 1 484

I ute puerpe I i ers on of the ut ru

Surg Gynec & Ob t 93 xx u 46

The path 1 g3 and the therapeutics I puerperal eclamps a Lévy Solal a d Tzanca P e e méd Par 1923 XXXI 650 Puerperal infectio po taneous fæcal fi tula A T

NULASY Med J 1 st all 923 H 4 I The modern con pt nof puerp 1 fe tin BROUHA. Gynéc et obst 193 1 1

The diagn si and pr phyla s i puerperal feve
E Hatch Gynéc toust 923 36 13 [133] [133] O the ther pe ti means t mbat p Alfteri Gyné t obst 923 1 63 mbat p erperal fe e [133] P erpetal sep s (ba te zmia) ca ed by b lius infl

enza W THALHIMER a d B M Hogas Im I Obst & Gynec 923 \ 343 The p gn 1 in p erper 1 fe er T \on JASCHKE 11341 Min W hasch 93 1 13 0

The us of perman t drop-1 rigat > in p erperal fe er ELLERBROEL De t ch med Wchnsch 1923 xlix lutovaccus ton 1

puerper l f e Mu n he med Wchnschr 933 lxx 971 On the val e of acci e therapy in pu rp li fections H LACCOT Re fra c d gynec et d bet 1913 xvm 373 [134]

Newborg

Inf tm talty in the first m the flife birth in nes cog tl mls ad hæm hge JA Foote JAm M Ass 19 3 lxxx 1349 Neo atal mortality associated with syplls and oth r mat rnal niect s A B Spaldi G J Am M Ass

923 lxxx 1345

Asparation of cephalhæm toma of the newborn B Lankgord Verg la M Month 19 3 1 549 An teo ct bell oh I ton of the gast otest nal tract in the e bo child cot t df m its

m th R CHALMER'S Lancet 9 3 cc 874
Hæm h gic disease of th n ly born t ated

fully by inject fth f th s blood F W Ro ER SON Brit M J 19 3 1 600 Ap Im ry report of the occurrent fight coccur.

The state of the state of the occurrent fight coccur.

The state of the state of the occurrent fight coccur.

agi ts State J M 10 J XX 1 42

Heo ischiop gus R Meyek Zt clr f Geb rish u

Gyn 1 93 kvxx 1,184

A c se f paralys of the dial rv f ll win f ceps d li ry M Floris W n klin Weh h 923 XXX 5 4

Miscellaneou

th practice f obst tri s Som g e l rem ks LABKER J Med Ass George 9 3 x 393
Som ch g nob tetric l practice II R SPENCER Med I es. 10 3 3 323

Som cha esa bstetrical practice sun the fou data of the Med cal Soci ty of Lo d H R SPENCER Lanct Q3 c 87 Obt trics in the a a home J F Maxson J

Med Ass Georg a 1923 x1 387

Ob tetros inp ate pra tice ith reference to 1 ct M T Be, so J Med Ass Georgia 233 300 Th i d nr s in bit tires W T McCo x in. So th. M J 19 3 x 79 Th.

The c nt ol of m d 1 es Il BAILEY Am J Obst & 923 VI 203 Art fice I interrupt n of pregn ney with simult neon st ribz to n est ge by deep intr peritoneal ect of the ut ru nd e t rp ti f the t bes L Voor Vion tsschr i Geb rish u Gvn k 93 l. 309 The relationship bet een the pl c t d th sec

to of milk O FRANKL Im J Ob t & Gynec 19 3 Th f d ng of pl. ce tale tract to m th rs stseffect

b ast fed inf is S F ABRAMS Am I Obst & Gyn c

9 3 1 450 Observat as a the truct Wielocii. Arch f Gym k 10 3 f the placenta. J The anatomy and to logy for imary sthme placenta.

M. WALTHARD Arch f (na k 19 3 c.

The meal fall ge hydatilm! by b manul com.

f th tru II BEC R. M nch med

GENITO-URINARY SURGERY

la 33

Ad nal kidney and Ureter

Redet nof the delect nadeplote c vulsing Laurs he Lisaers Wakin Wehnsch

An toru les ch po th t er tin ithe caps le of the den I gland kd y a d pp port ureter \ Lar kje a dl Bekr D Lyn hir f the 0.7 XX 452

Theq t imblid y Istmoefq t in th right! the! ftsd? C Por L nd P CORDIER J dur I med tchi o 3 6
Th fat f th kd y A H South M Qu t J
[136] Med 93 283 [136]
Onunlt Husedkd yad lied nlm li rm ti s
M J Srevarr ad S D Lone Brit J Srg 93 283

11361 Horseshoe h pe hyperpla d bypopla a in f echid y (B G uner and L Kratz isen Zisch f î ed

urol Chir 93 The centrest logical pet f h rseshoe kid 3 Noon o E Fitch d Geb d koe tg tr hi

Anestimt fth frmt dnedfmth se f tests fra lf tin WT Lo Goods Bost N 8 (137)

S. J g j clax 3 to h thied fun t i ts L M BRIED d J RF DALL Ann Clin Med (138) T, 05 The regard the time to for ephritis. E WEUNTE Zisch for the og to 467 The for the boot to both echiked ey for boom V C D is tell C McGille J Urol 1912

11331

A ffic t tre tm t f r re tat se f pyeliti J S D v2s Ar h I ediat 923 l 698 At harm tg pyel nephriti C II W TT

J M d A G g a 9 3 x 41 I m lpy l ephntis H b B RNE LAGARDE d R VAUDESEAL. Med Pess 93
R 11 0 de to u etc 1 b tru t
al 1 H W L WAL ER VOI oth than

9 3 Lexvi 72 I eport of a c se of h dro ph os I the ght k d ey I kno no gi G J Thomas > g Cl N \m

Hyd ephros th teral e mn es t blood es 1 C H Lypowics 7tsch f rol

La ly hid onephrosis assoc at d with berra t art ries E GRAVILLE CABER Bost M & S J 93 1 505 Tram I hy fro phr M RE G unen Ztsch i r i Chr o 3 x a d G B

9 3 XIII 93 A mplicated case f pl lithiasis 1 CHWYZER S rg Clin \ Am rg Clin Am 3 47 Blate 1 phrol thi si R C Bry 1 gi a M

M th 93147
Ral un.m K Vocet D tsch Zt h Ch 9 rel 1 97 the lpcl oc mg na Papellryc m fth r lpcl oc mg na child [3) rs G J THONES S rg Cl

Some bee at thigth fro 1 11 tion omb bec at the general transfer of the most what y transfer the Prelim ty coort C.S. Witti woo. J.L. l. 3 75 [139]
R had rx ry by the a limb pope b V.R. 528
J durol meet thir 9 3 7 [140] 1391

Neph tomy J A H Magota Oho State M I 1923 XI 730 Unnary incontine cein thei m leducto a double ureter

with an ab rmal op ng E I APIN Arch d mal de reins et d g nes g itau u re 19 3 415 [140]

A port n fi e ca es of double ureters compl cated by pyel phritis C Rours Arch stal di ch r 1923 [141] The tr tment of the eter when nephrectomy 1 d ne fo tuberculos: of the kid) L R REY OLDS Califo n State J M 0 3 xvi 369 [141]
A cross and evp is on f the urete als gment implanted in the bl dd O kuestner M nats chr f Geburtsh

u Gyna k 9 3 L 275
Emp) ma f the u teral t mp follows g compl te ur terect my 1 Hyman Ann 5 g gas la 11 387 11411

Bladder Urethra and Penis

thet mat n of the bladder F KROH Su tion Z ntralbl f Chr q 1 1 140

II mia fthe extrap rit eal bl dd Z ntralbl f Chi 19 3 1 05 F DE GIRONCOLI

a meanus 1 t. lit. 10 3 1 05
The perat to treatm at f ves cal dive trula J S
Joyx La cet 10 3 cev 445
Leur plaka is th bladder report f a cae J J
VALEATER J U I 1933 x 89
Syph 1 s fin bladd A PETERSON C 1 for m State
J M 933 x 43
Th ch cal metro a fiber a large for the first first for the first first first for the first first first for the first first

The chi cal pictue of luet cl sions of the bladder M Ascour Ann tld hir 1923 H 977 [142] Ut o ei lfstul F J Parmenter and C Leute [142]

NECGER J Url 19 3 329 E perime tal vest g tio in e largem nt f the mary bladd r by m ns fe gr fted segment of bowel W Von

u ol Chir 923 1 20 se fg an lom of the u mary bladder A eport of se fg an lom of the u mary h J Thomas Srg Cl N Am 923 m 173 I tholg ladel calt des f papillom f papillom ta and rei omata of the unit ary bladde 1 Ste its Sond rdr a Arb a d path I st d Um HI gf s to 2 [142]

R port i c se of sponta eo s plin fap pil m of th bl dd r th cue I h Sisk J U of 1923

The r sults obt in d by ari u m thod in the t at ment ft in a fth bladder II H You G and W. W. SCOTT N X k M J & Med R 923 exvisi 62 [143]

The te tm nt f bl dder tumo s P PEARSE Cana da VI 1 93x1663 Rad m susgal malferenm of the bl dder B S BARRINGER Chic go M Rec 19 3 xl

The results with modern ad the app in bladder tumo s C Goos M. N. Am J Roents 1 03 x Sot \ \text{sal} d \text{ accu at method of m v g small bstruc \ \text{ t m at the e c l onfice nde obse at n with th \ \text{ h} \) nwthth bah frequen) le t od M MoLON: U ol & Cut n Re 93 x 6 It latept n f the blddr Josepa Ztchrf

U 1 93 11 458 Rupt of the r thr J H GARLOCK S g Gynec

& Obst 9 3 xxx 33 U ethrocel G J Thomas S rg Cln V Am 1923 263 Derticul ad cyst f the u th œ I P Jon so t

J U ol 923 95

Urr ary symptoms in women due t urethral pathology orly A M Jupp Am J Obst & Gynec 1923 vt 318 11431 The us of co a c in the urethra J A GARDNER Am J Surg 2023 XXXVII 258

Genital Organs

Non pec fic inf ction f the p ostate and ves cles G 5 Suth Bost n M & S J 1923 clvs 1 435 Etiology of p ostatic absec s A Meister. Dissertation

E 1 ngen 1922 The ro nigen therapy of chronic pro t tic hypert ophy
Thourson Stevens am] R nige of 1923 x

Perm land suprapub cp o tatect my Cho ce of per atton n types of c es R V DA J \m M \ss 1923

ltxx1 416 An emerge cy meth d of tr lling hamo shage from the p stat cureth a follow g th punch op ration G J

Thomas S g Cln A im 031 281 The lore of the papub curin ry f tula following prap lie pro t tectomy ob ervat ons on si ty-eight cases II P W Witte Proc Roy S c Med Lo d

Set See 110 9 3 S ct S rg r 19
The morb d ty that f llo s pr tatectomy \ RANDALL 9 3 XVI 8 7 M! nt c M J Tra ma nd s coma of the prot te G B GRUBER and L Marer Ztschr I u ol Chir 9 3 xiii 120 A d cus on upon cancer of the pr tate and ra dium Legger J durol med et chr 1923 x

The pathol gy of neoplasms of the tests: A H Souris The end e its n m ig ant di ea e of the testis B COLEY An S g 1923 lt. 11 370
Gon cocc I vesi litis D WATSON Brit M J 11441

023 N n specific ep d dymitis C Schumacher Arch f DmtuSvph 93 cxl 339

Miscellaneous

Cysto cop c techn qu E Joseph Berlin Springer

D cuss on n the \ray examin at on of the urinary tret R W \ Salmond K O WARD L \ ROWDEN and others Bit M J 19 3 A a ti pt c pyel gr ph c med um I II Cunning-

HAM R C GRAVES and T L DAVIS J U ol 923 E 11441 Tempo ary suppress n of uri e follo ing double pyelo-graphy H H Morrov J U ol 10 3 26 [144]

aphy II II Morton J U ol 10 3 25 [144 U og aphy B H Nichols N lok M J & Med Rec ig te u 49 The if nee of the le upon phenel honeph thal neer tin R II Major J Am VI 188 193

lucu 1362 The i tra e ous jets n of undg carm e n ch om cyt sc py H Janke Ztschr f u ol Chir 19 3 zu 3 3 ther obe at ins on the blood pesue n case of unav bstrut on 1 JOCoNor J Urol 19 3 x [145]

The u olog cal a p cts of hamophila J D BARNEY B ston M & S J 19 3 cl v 1 486 Hamatun with p ticul refe e ce to essent al hama tura H C Rolvick III i M J 1923 lv 92 The i deati ns f r ind d al tr atme t f g n rrhora

We the special ref to the rest nee or f stnes of the

g noncer si gemu les T \ Williams J Leal 19 1 311 T tim Lef genorit 1 \ Siliati II R Lo \(\tau\) G O Scorr I then Therap La 1933 3 685 Sine c d d dram in the observe of close cases i g b g i li ag l' l k R Rocta C (fm \(\text{Cit}\) J M \(\text{Si}\) a d k \ R Rocta C (fm \(\text{Cit}\) J M \(\text{Si}\) a g li s A pert farare case fact to 1 Hrs. J Irol 1973 x 3 L'recyste ne pla m. Case report with Li rary survey C W. Jerre w. I tetts t. J. Vid & Surg. 1973. x 224 Th. polyce plus of perme sus anomia. I R. See.

SURCERY OF THE BONES TOINTS MUSCERS, HADONS

Conditi of the B ne Joint Miscle

Nessiten the fli 1 1 11 1 1 1 TIN S 11115 2 2 1 Lernt 547 Often It Ina W. I. Brawn of C. I Irwe J. Mr. M. V. 1921 I 4 4 Genal Fort II and parath from the Genal Fort II and parath from the Genal Fort II and parath some of the RE WY ftum 1 meta t la pathly lires of the same fingles. J. W. D. St. J. W. reyne & Link g. M. J. 10. 3 7 1 4 Onte to the rise I have the Zirely I Cha o y ls Ith bit thek 1 m I C Tuberc & Ret z kl Cl opper 163
The time t flor sight the 1
t becl thelih g W A CL z J I [116] 1 1 (L 1 1 h ck t5 g 923 Its g 923 Pttrmbel tu S D Torte I Am M 971 | % Bet be got and to taleatin Shrows tibe hellt intime J C Bu man J Rdlotiu Rdlotiu FlHr Jam VA Ctelltan 0.1 th ! gr f the le mar Ill ust al med Which to t 1169 Lie larthros II was zinch f the Cit 1973 1 1 5 1011 | r.
The gift for the little in the lit d bond I ses est. The trot into time 1405

the form the first of the first

Ara i, yi! to the trough dinder W. Birex M. I. med W. b. whr. 21.1 533. The Backstein return you will say the first trough the say to the say the say

ser A by the three and the series and the series are the series as the series are the

I to I directed as a minch con flower of the Just the Just to Just the Just

(1) Return Lam (1) yell liber (1) Year 1

In the deve with present right of the control of the c

Note that it is a looked to be the than the tend of the length of the poper of the tend of the length of the lengt

EL Which 9t 315
The bus putting distituth knoc
pot Jimma uta Bt kl Ch 9 J
451
Me scu ofth k pit Binso Arch fp th
3 t 9 J
5 m Sublice the horej at A R Co 1 9 m
5 m Sublice the horej at A R Co 1 9 m
5 m Sublice the not j

Se ere crushing injuries to the knee joint W F Suite J Arkans 5 M Soc 1923 xx 99

Inte al derang ment f the knee A review of the sub ject with a report based on 18 of Tated cases J K SURLS and R B OSCOOD J B ne & Joi t S rg 19 3 v

Lathologically fleted lines C \ PARKER J \m \f 1923 Isxti 198

Conge t I curvatures and p e d rthro s of th bones of the lower limbs E O TEN SICKEN I thandl d Russ Chr Ko g Pet ograd 923 C ng n tal fibular del cts [] VUTT Surg Gynec & Obst 9 3 xxx 2 475
A co genit ! tume of the t bia D D Pinnock Lan

ct 19 3 ec 833
Foot d sabity a analysis of 781 con cuttie cas s
E S Grist Surg Cli N Am q 3 1 1389 To tratme tof pan occ rig the a tet

the foot WOLLEYBERG Zt chr i rthor Ch The anatomic course of Lochl r ds ase nd Perth s dises e (Axiralsta Arch f klin Chir 19 3 CRE

Flat foot E Fis HER Muench n med Wehnsch 1923 l 43

So very of the Bones Joints Mus les

Tendons Etc The use mpla tat in artificial bose defects. II De Ri New Schweiz in d. Wich sch. 193 l. 271 BRU NEK Ztsch f rth p Ch og h og I d nt is bo t n pl ntsti e pe en s 3 000 bone graft ope at on H MABE, J Am M

Ass 19 3 lv 21 4 9 The ror tgen ray tre tm nt ib ne a djit tub rc C B Hoer 1042 Mu chen med Wchnsch 10515 922 lt 943 Oper to tre tme t ib ett læ L kom I ie

k 023 xl The price of s fbo es gey U G Danies I \ t The price is to easily to the state of the NA 193 235

Cont but ne the stude of bot plate K Blond A chi kl Chi 193 cx. 478

Lepot to ne 66 per ti sir thachite def mete

L Sorr L Bull t mem Soc d chi d Pa 114 Go or hoe I the tis nd othe tomy Begancon Well Al Weismann Netter Bull et mem So med d han

d Pa so a as x ma so [148] The te timent of purule tath it b arth tom; and m bilizate the cau e tialues C Willem Bill et mem See dechi d Par on he 144 [148] Id at n a dr ults of the cl d tr atment sup ti earthrit s & W I is ien Kin Wehnsch 19 3

1223 irth pl ty E W Her Groves Brt J Sug to 3

Anthr platy a reteal summary of discuss on at a meet g (the International Society f Surgery A H TOD Bert J Surgery is 150 C attributed to the cusson and arthr platy W I DFC V SEXER Med Ire 10 J n S c 150 The sl f the arth ode s pc u Volletus

Zi cht i th p Chir 923 ali 85 H wea d i mities be p e e ted by the tra pl nta t in of tend as P Prizes 2t ch f orthop Chir 923

Operate methods of te d n tr n pl nt ton Verreres Ztschr f orthop Chr 19 3 xl 57

The treatment of localized paralysis by the g afting of dead t adons G L RECARD Rev in d de la Su sse rom 1023 xhu 364 Some clinical observations 1 the suturing of ten

do s O MUELLER Bestr z klin Chir 1923 cervii 754 The funct 1 pr nors of treatment of te don E lust At h i kin Char 1923 Cts v 63

The op ative t atme tof sp na bifida BADE Lische

thop Chir 1923 xliv 44
The t atme t of bachit c spin l cur ature in early wouth I H WATERMAN Muenchen med Wchnschr

1923 1 4 739 Go d results in t o ca es of ch onic a kylosing vertebral diseas fr m tre tment ith vatr peace n K GRAP M t chen med Wch chr 923 lex 737

The palys of P tts ds a and an operat on for its relef J Frank Ediniug M J 923 n s xxx 385 149

The se time t of bst t scal b achial p ralysi with a rep t of fifty ca e S W BOORSTEIN J Bone & Joint Amput tion b etheelb w B A WASHBURN South

M I 0 3 TM 779 The tr atm nt f webb I fin ers congenital o acqued G M DORRANCE and I W BRANSFIELD Ann Surg 1021 L t 11 53

tment of coxa vara Brandes Zts by f The t orthop Char 19 s tl 266 The tr tm nt of ongental coxa vara A SCHANZ

Ztsch f orth p Chi 19 3 x! бı Osteomyel tis of the love end I the I mu treated and e edby tist phylo ccus m d cat na dp inctu e inth

asprat on fad et absces Tuffer Bull t mem Soc de cht de Pa 923 xh 667 REIVER ho t th gh stump Arch fothop u Unf Il Che 923 TY Sho t stump of the I gan I the application of pothess P Morte-Hauer Arch fother u Unfall Ch

923 ΧΧ11 13 Γa pl tat of tend o of the kne Sciffer In

Best Llin Ch 021 CXTIT 471 Crv! er te tomy of th than genu v hum and sarum G Pertues Ze traib! f Chr 1923 1 89
Hahn p tic in the creeti n of a t bial defect due

to ste myelit W V Staton It chr f rthop Chi 93 vl 66 Segm tal te tomy accord g to 5p nger fo hah

g ade hacht u sture f the lg BARTENNERFER Zischr I th p Chi 19 5 xli 488
Experiment lines son of the cada e f d a nag I the Experiment lines son of the causes a kle joint S D David J Bon & Joint Surg 19 3

In operati for the corrects n of d op foot W C C merett I Bone & Joint Surg 1923 81.

The teatment is hour algue a display for those

MANN Zis hr f orth p Chi 1923 xl t
A ew m thod of pe att n fo ev e pa alytic p s cl n us h Vov Dirraica A ch f o th p u Unfall

h 93 xx 1 14
Astragal ctomy dlakw rdd pl m nt of the foot for t lipes alc neus du to inf rt le parals Operati n and dem n ir it n of case showing the afte t eatment and the re ults W. H. Cour Sug U. N. Am 1923 Clan un l atens on with the foot a supinati a

The Ch 1923 CTRIX 76 HERTEL Be 1 An instrum at to facilit te bu n oper tions and sesa me i torry P LEWIN Surg Gynec & Obst 1923 XXX1 602

Fracture and Di locati na

Esta a 1 t trul fr tres in a i at april mentation C A traces A h f kl Ct file 1 548 Frurm of that ld a I the testment I fract tex. A 1 With the Sect of Section of the sect

The operation of the first the strains of the first the series of the se ameut tien t ps to We 187 /tschr f rthoy Chi un th

or in the sent is that it is the study (W. I.a.) is it process for over if the south of the relation see hose it is proposed in the sent of the sent in the sent of the sent o

19 J (n to 3. Go | Fifto with om | Ifra | read | I. g. | I who m | No. | I say | I. g. | I who m | No. | I say | I. g. | I who m | No. | I say | I. g. | I who m | No. | I say | I. g. | I would be too | C. g. | I say | I. g. | I say | I. g. | I say | I. g. g. | I. g. | I

locat I the duphys Bers re B H t.r. rs See Se

local tree-upon or first in the section of the last 1921 of the time legs it have not experienced to make the time legs it in the last 1930 commented in the

Cin N Am 23 1 435 The free tim nt I fact | fibel wer | 1 of the do ABELIEF IN DELIVER LIFE WET LOS THE PARTY OF LEAST OF LOS LEVEL OF LOS LEVELS AND LEVEL AND LEVE

mperum fret fet directmba entlæ P il loky d treatm at K PEFD R CI Nm 1150 ifer ttot Cng it I t lock a fth I g an wappart & J GILM # 1.0 1 19 3 184 579

R I toperat teatm to file gentlifter too ith he Deurschi Fron 7th i the Cr 0 3 2 47

Open peratio f to ge taldislocat noffin HP If I war our (y &01 t 1923 x vi 64 m lat n of act ret I moral I to R vor Deutschem I W h sel tott lt 6 I be me tal t I s m fra t s f the ac tab 1 m J

Critato de Lyonchir 1021 32 [151]
Il i for t l'ese f t repelatifia tu (hp

t th Whitma methel L & O Gentet J be & [151] (bp J 14 rg 1923 FoR Amal test to had not to fit femure tests to rest my with ten in fitting de

That the test of the femilies fit fm

If W O a J B c & J t > 72 to 25 to 4

If W O a J B c & J t > 72 to 25 to 7

And on first c a fit I serious t T A surra

Videon frates 1 th 1 ser troche tr 1 Au mrk
A for the put 1 to 1 to 1 i 4 yo
Weldall tai of the put 1 and th 1 time t for the 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1 x 1
L 1 to 1 x 1 x 1
L 1 to 1 x 1 x 1
L 1 to th theh muscles Lucrosca Ar 1 f kl Ch

197 The H rat to twent I factures fill patell B O I a tw Ze trait I Ch ore 1 308 The time tool fracture of the patella R. H. A. Witt rocky I be K. See Med Lond 19.3 Sect ong to

It is nor the able W K Ferre Je til the M J 9 t 1 59 [151]

Indiget t fith na bene of it for t M CE t Zent HI f Ct out 1 154

Orth pedic in G er l

ter tel the tit ton filme h s ille il TB jl & Jii g o j 755 S 20 it t th regard t body m hace R I let I lived lost re at In w method free nd g post N H F DD An emethal free riggor We cold Back Junt rg og 3 752 Ermers i tigged dg ogi RH var Jiwa St W See 923 b 355 The Linim ble the lhad I San e maic Twin bel priggr og

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Ve el

t my I the cap flary system W I suisi s Kli Web sch ozz S Sz 1 tmy I liay (z) A M Cr S L
wrese I A h li t R Ch h I trogral o z T) mbox (th upen r nese tene r k J (
Witse Med J A tral 19 3 356
T um t l'ect be t u rujt res fth com 10 le tern ! c rt nes C Jean J le ch 93 (153)

3 3 Th rg altre im t f th rm te conseq e en i pill t fihelg R I FRICHE I ressemed I r to t [153] i 100 An ms Bitcke and Milke JAm M As

In rism I tera me differentment I (Krw Khandi i ku Ch K I terai 913 am lib bee ! the kull pe trd po gs large lyo h og Tra plant to I blood evel I B Ztschr f [o23] (f less it f et l tea pl ts_O K tez] [it

Ricod and Tra sfusion

Diest 1 coc tos I CL s R Mn Which 1023 1 5

LERWIN THE CECTE A STR 031

I hosphate co tent of the blood aft radiation of the ple A Sze FS Zischr i d ge e per Med 1923

38 \ Hæmorrhage G W CRILE St d , exh usti [155] At h S g 19 3 VII 54 [155]
The gnifica ce of prolonged o gulat on t me of the blod I S Horszey Jr V 1911 VI Month 923 I

Hamophla n the female M WARDE Bit M J

The cu ative treatment by splenectomy of chr n c

thrombocytope c purpur hæm rrhagica N E Brill dh Rosenhal Am J M Sc 923 clavi 503 [156] E pe im ntal a de lloidochemical st des on the nat re of the co gul tio f the b! I B STUBER nd M DANG

of the of guil to I the bit is a Student and a Student Christian C Inc u au circatment by pienetom volci ron eth m be cytop i purpu a hæm r hg a N E Brill an i N Roskymat. Vm J V S o 3 cl. 1 504 S calte that i pun a man C V S E La D. The ngh d Ge gm v 19 i U s a man C V S E La D. The ngh d Ge gm v 19 i U s d be m by a zemma s The kern by the return volci pun d S compared to the comp

Blood tr nsf i 1 c il p a t ce with a n te n the pr ct cal te t ng of do or A W HOLMES A COURT C BFIL a d A H TEBBUTT Med J A str la 19 3

Blood goup g F J CLARK Med J Au tal 1923 Blo d c rpu cl heapt 5 man P MINO Riforma

med 1923 xx 482

Transfu ton of blood for hamorrhage and shock G L PINNEY Nebraska State M J 19 3 VI 365

Blood t ansf 10n indicat on and method H C Jones

Vi gin M Month 10 3 I 431 A simple method of blood tran fu io Deutsche med Wehnschr 19 3 xhx 920
The techniq e of 1 di eet blo d tra sf on F MERKE

Ze traibl f Chir 1923 l 1275
Auto injection f blood f flow g vaginal hæmorrhages
and operation F BURGAHARDT D itsche med Wichn

sch 1023 xl 085 A compari n of the W s e mann and Kahn te ts in 329 ca 5 J F ANDERSON nd F E FISCHER N 1 rk M J&MdRc 923 CTV1 490

Lymph Vessels and Glands

The lymphatic ves el of the j junum and ileum P Descomps and D Tunnesco Bull et mem Soc de chir de Par 19 3 la 781

Lymph tic obst uct on no pa a tic elephantias s L T Gacer Am J M Sc 923 ctvs 200 [157] He dit y lephantia is F Reich B tr z kh

Chr 10 3 cx 1x 6 7

Pay s lymph drain ge n el ph nt 1sis of the leg W
Haupenneissen Zentralbl f Cl 1023 I 1 81 ryteatme tof lymph g anul matos: H Chaoul dh lan E Munhn med Weh h 1923 1

Hodgki s d e nd lymph sa coma A U Des Jardins and F A Ford J Am M % 923 I TX 9 5 Som ob ry ti ns n the beha i r of lympho rcomata dr dium te tine t D I HARRIES Practitioner 923 CW 91

SURGICAL TECHNIQUE

Operative Su gery and Technique Postope ative Treatment Some h inful su gical diuncts and methods R F

FARR Surg Chin N Am 193 1 25

D nie i fith field of oje in T Vo Milliner
a d II Schlee D is he med W hischr 93 1

Som use of the dermal g ft a d the dly d fp II P Rirems S g Clin N An 933 1331 The charged first n th primary trim t id d fc 1 lo ng ceut o [1 d formatis] J Scrittzr Ze 1 Some Dost pe at two Mitt d G g b d Wred u Med 1 Scritter N And 2 Scritter

Chr to 3 x v 466
P tpe t symptoms 1 v l ng th

tutue R to priver Zntribl Chr 9 3 1 266 In uln teatm nt 1 post pe at (on-dabet acid s D Distin nd M W Seel Wiscon n M) (on-dabet)

TO I THE O

Antiseptic Surg ry T eatment of Wounds and Inf ctions

Chemoth append t mald of to R Beele G Dutsch med Wh h 9 3 I 000 Autoham th 19 inf u 1 pycod rm tt a d therlical of ti P M rkt v d F Hirsch end

Bull et mem S c med d hop de Pa 19 3 35 xxxxx Ve ato te tment of fu u De ts he med Whn ch 923 1 ato te tment of fu u cul is H SIEBEN e is he med W hn ch 923 1 58 The testm at of pyocyane's af ct n 1 s ppu ating

nds W PARTZEL D utsche me i Wehn chr 1023 xh 8 11591 A c nservat e tre tme t of carbu les R W I EWIS

Ann 5 g 10 3 km 1 649 Wwd 1 f cto 1 man ca sed by s 1 e e ys pelas b cllu Printerstrial D uts be med Wich sch 1923 J x 1000

The ef Lug l lut n ns gn l tube culosis S L skot Nicki P l ka gaz lek 193 275 [159] St m lato of he l g of inflammat ry pr c see by I nfl mm ti n E Makar Deut che the p odu t me l W hn el 923 47

The t eatme t of sl ggt h wound and those sag e ting d phthera mie t n I G MEYER Deutsche med Which og xlx ose

Anæsthesia

R nd n g th bra n bloodless to pe mit more rapid pro ducti n of anæsthe a C Riffer 2 ntrafbl f Ch r 1923 1 1390 I athol gy a d t eatment of hloroform na co is p

Schene Min Wehnscht 19 3 1 1507

Hed al na c sis in infa cy P Drevermany Mu n che med Wehnschr 19 3 lax 1 53

Hypodermen eal narshe as F. R. La. v. J. Vm. Vis. 93, lat. 27.
An whething of this gas archive the document of the document of

Remo I a d p I a esth C M RAKESTR both M & 5 o I i tx 5 g Local ne these i maj r ex ry ts use and hm t t ns I Et s ta R Call m State J M o 3 x 44 I t th I oma esth t s \ L FLERMILG Birt

Su gical Inst uments and App r tu

Ti h rp n i ste d sc ipel W W B Brock
(we & Ob t 9 3 x 1 380 [16

PHYSICO-CHLMICAL METHODS IN SURGERY

Roentgen logs

M hancl to othong fith me or te grph JC 1544 Clavib 923 15 [16] Range lgcal pltalman fivil J V Stevan ad JF 25 18 1 milr 10 3 {161} Jul I J [161] White est big to fth the ray (11611 1 8 I epit fthat froeth jit sry to assum fat lightalt 3 1 1 °S. 1 PEARILAII then 93 t 1161 ff t f rt 1111 n t tb t atm tlyth \ ' ' L \ ' W sk L Brit W] [162] 0.3 []-t] \m'] 1 d That It It it has a tather 150 11 \4k R 111 Mel 93

Helderdes nibe Helfell moude meener k lo 12 a Dr. D. I m. d. Web. b. 923 hegs. I mp ture I to fiter I m. I N. y tr no I (H. Scrimps Stablither p. 10.3 x 55. Th. 60 of t. j. at p. p. es. I g. the lat. per of Ir. ige 1 jun I i zerzy W. kin W. b. sch. 923 1.5

II I'm t ecurt I Bi 1971 H (Catera I) ish /tsch i Ch 93 cl

Ltdnrilmthplips Chg Vik og 1 705 Theat nfaithmmr it In Stra

thaje 03 537
If m twee lib teatm if CV
If m twee lib teatm if CV
If p C n 1 J Med 03 30
I function timile timir M Hill
On b it f lib teal m m n t
n legth | D Olica J R I I 03 318

Object iminit MS Tri Meso ICI (Max Ah Rild Hitterth p

Mi c ffane us

MISCELLANFOL 5

[162]

Clinical Frittle —G ne at I hy i I gleat Conditions V | sc | r | f th | g | d ti | t | t | 1

LASEN Med kl 1 947
Th to zm f pen albu BR sr
dt LB p J Lat & Cl Med 9 14
Thep th log tm ftl i f t
g I L L J 1 V h ll i I Clr i g CLASEN Med Kl 13 [164] The p th log g iT gg ILLJI Urtgado (16 4) î TÎ T / II // 17 ('n t Prat 923 problem HI Fas ttl t W] or Th d P J MAR 1 Th tlg f 11641 85 9 3

t 1 h if th 1 k . M M nth 3 I 44 f th p rm - th 1 k y f if this f L D (R) p mm t l 1 mt neepl m tg t th tlk dpthlky f BKci \ itld h 1 43 6 600 1165 of lbd mignt(mithb Mtise Iti Dsent fithles ple the cald b It D pt fith n the paid ith bbt V Ė c sid taltu th p sl f t lats F t m th ddtbt Jata I trath th I fl iff the lip Wed 93 70 34 367 Smitmilgy delagn fr WHR: M M th 0 3 1 443

Studes in cac tran plintation K Nather Kh Wchasch 1923 1 1499 Non's gcltr tment f cancer W C Custaires Am J Cl Med 19 3 tx 719

Can e from the su g c l standpoint \ I OCHSNER

I Rad ol 1923 IV 384 he m thed in the treatment fo neer Kipperberg M nchen med W hn ch 923 1 x 6 [166] X y tre tment f can RERHUMA A # 12 M

Mo th oth 93 1 444
Ar the rs its file p atty treatm nt of cancer b tter th n t nty y rs ago H J Paterson B it [167] M J 9311 556

Roentg tre tment surg y O Juragu G Strah th rap 1923 x 761 11671 The teatment f sarc ma Seventery d Holliel B itr k! Chi 1923 Ctx 590 11681 Meta t t bypern phrom A Gr s nd J C BLOO GOOD S rg (yn & Ob t 923 xxv) 400

General Bacterial Mycotic and Protozoan Infections

Strot c ci septi æmi O Berghausen Ch i nati I Mel 19 3 376

A ca e of go coccu s p \ I waxon and \ I KAPO
PORT J \ku h 1 Zhensk Bol cz I et og ad 19 3 \ XX 51 Nason and M Rapo Staphyl ecemia foll sing an fect d toe BI HER A ch I dist 1023 1 0

I clin c I co tribut n to the et logy fact nomy co is

W T WARNICA I a cet 1923 ccv 497 \ fulmi att g case of local anthray infect on w th otes on a thrax and on the h tory of th d ease in Au stral a J B CLELAND Med J Austral 19 3 i 4 5 T tan s It et logy prophylaxi d treatm at w th a eport on c s C Γ Gran w V 1 g 12 M Month

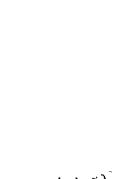
9 3 1 480 Echi cocsdeaenma J Palugyay Dutsche Ztschr f Ch 023 clyyy 3 6

Surgical Pathology and Diagnosis

Th Wildbol rectin MRESS De tsche m d Web chr rozz zli 1 52

Hospitals Medical Education and History

Permeat on f th m di l cu neul m by prev nti e teaching G Newman Bit M J 0 3 1 347 [169]



International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN Chicago SIR BERKELEY MOYNIHAN K.C.M.G. C.B. Leeds PAUL LECENE Paris

SUMNER L. KOCH Abstract Editor

DEPARTMENT FDITORS

DEAN D LEWIS G n al Su g y
CHARLES H REED Gyn ology and Obst c c
LOUIS E SCHMIDT G nto U n ry Surg ry
PHILIP LIWIN O thor d Su serv

ADOLPH HARTUNG Roentgenology JAMES P FITZGERALD Su g ry of th Eye FRANK J NOVAK Jr Su gery of the Ea No and Th o t

CONTENTS

I	Authors	1
п	Index of Abstracts of Current Literature	u
Ш	Editor's Comment	2
ī٧	Abstracts of Current Literature	189 269
v	Bibliography of Current Literature	270 29

Ed ton I ommun cat ons hould be at to Franklin H. Martin Ed tor 30 N. M. ligan Av. Ch. cago.

Ed t. land Dun a Soft a 30 N. M. lagan Av. Ch. ago Illi no. U. S. A.

Publish r. for G. at Belt in B. Il r. Tind Il Sc. Cos. 8th nettert 8t. Covent G. d. n. London W. C.

AUTHORS

OF THE ORIGINAL CONTRIBUTIONS WHICH ARE ABSTRACTED IN THIS NUMBER

1 52 Do o n E P 227 Dott \ \ \ 1 21 Kornew P (r 206 R dulescu 1 D to8 Kosyrew A 211
Kretschmer H L 236
Krumbhaar I B 258
Lambe t W E 19 Albeht O 257 Ranzi E 57 Rasc 1 2 9 3 Du las Grant SrJ 94 Ugl e 50 Arn F R 97 Ashly H T 20 Du h m H k 105 Re b 26 Duy ! 1 204 Read A 67 Lambotte A 251
Lask ni k S 250
Lehm n 11 09 Du rgey, 25 Linh 11 o R liet 90 Rose b rg A. 21 Aubry 43 1 t bert 29 F n P m Losser C 13 Rose C 13
Rose G 2 4
Rose G T 232
Rose J T 251
Rose J T 251
Rose J T 251
Rose G H 8
Sa ta lla R 1 231 Elan ki \ I 205 \u r 3 226 End | 16 Axh u n 46 Bahe JA 91 Baly H 2 F to 21 G 93 I roy G 2 1 F ky 1 R 194 Bm , J D 238 Bu k H 4 Schaa k W o6 Shi kelê 226 Schukelê 216 Bmol 12 Béad H23 Iem u A 64 Fe rête 23 Fg F A 267 Fsher \ G T 249 B rt (200 , sal k 50 B Det 11 Sch z E Finder (G 1 249)
Fulds G S 2
Furm 2
Frid a L J 98
Gallat W C 1 215
C g C 264
C ut t 225
G rg E J 189 Scott 6 0 38 B |let | 1 34 B| sd | 1 I L 37 Bloodgo d J C 24 Bloomfel 1 A L 94 Sett t 5 C Ibol 1 2 Smo S 248 Sle inger E G 96 Rochl L 153 Bun t O k 23
Burse 5
Buse 5 Soe se J 95 So tham A H 36 Cla se O 164 Specht O 214 Spe ce W G 266 Stahl O 92 Glebo at ch W A 266 Glebo at ch w A 200
Goddu L A O 252 55
(rah m C F 259
(a get 1 91
Gekow J J 05
Crab r G B 2 4 McC e H M 3 Brankly 15 8 Strutl r, J W 4
Strutl r, J W 4
Strutl r L 23
Strubl E 2
Tall m n K II 214 M flanby M 19 Mey r O 263 Brisset 25 B fal Moons E 257
Moors Y 255
Morr w \ S 20
Mute F 04
Mehlm n E 263 BgsAH B y 100 C bo t P ass C thm 3 J T 7 H bensal O 54 Taverno f 4x Te adn L J fr 18 Clih JF 30 Campbell W C 55 Case JT 8 Tidnts TeLdRW 22 Hack G 24 If by W P 22 Heid nh I 24 M ller O 25 M ller W 241 T 3 C st A 3 C c II G 34 Ch b I L 3 Ch p L 28 Ch till F 2 9 CI T C 68 C ffey R C 2 8 C mam d F S C wan L P Th ms II 9 Th ms H 9
Th mso Sir t C 94
To e J A 89
To m ux) P 25
Truesdal I E 93 N the C 20 N w G B 67 11 s E 2 8 HILL JOS \ ba m A 244 N k E 2 N 1 N 259 Och et E W \ Tuff 5 Tz k 3 H &l 23 HtnHR 07 H b \ 255 Okinsch tsch A 5 1 al ssopoulo 1 58 C wan LR 7 C to A H 224 D f rth W C 6 Oh 1 r R 4 ysè 6 In Them 3 Oppe t Orat V Imbet L 5 Isaa k g K ∞ Orat V 54
Or gan J 7
Park C A 245
Prk C H 44
Pryn W W 03
Pryn E 3
Pluze P S 38 11 kl v C P G 268 I hid 64 Jat S 168 Wald toem H 44 Willin 1 268 D t A 3 Wehn E 3 D so 1 1/1 4 Jeff son G 98 Da 5 De JB D B B White JC 60 Whit LC 91 7 Judd E S Kilgg J H 65 Kl W H 94 D bru n H 57 Ptre 43 Wi Dbrun H 48 DFost HP 9 Wil n H S 3 Ptz II A'E W thers S Pod bed 7 k rschne 147 Pp IttC D1t 26 Wohlg m th L P 63 kns II 95 Kochl r A 45 3 Wolk ff K W of D mel R 68 Descripe tries 11 5 g t 23 PitnEP Koe g E 5 Koli L 48 Zefel E 7 P x 230 D ale L 3 Dui JR 37 Komp n j z G o Pub am E E

CONTENTS-MARCH, 1924

ABSTRACTS OF CURRENT LITERATURE

Sofrensen J The Pese t Techniq e of Laryn ge t my and the Various Methods Used for

SURGERY OF THE HEAD AND NECK

File		Ama Ope at a	- 74
GEORGE L J TOREN J A and Lewell J W. The St dy fth O la M vements n the Ho i		Knaus H The Relat o sh p Between the Thy oid Gland and the I male Genetals	tgs
	189	Dunkan H K X R y Therapy a T tic Hyper thyr id sm	195
	189	SLESI GER E G A \ te on the Intestin 1 Theory	
ROLLET and BUSSY Dist t n and St no sof the Lachrym 11 sa s	10	of Exophthalmic Go ter Hotst I The Pathog n Signific ce of Change	196
CALLARIAN J F Th T catment of Acute a d		in the Nervou Sy t m nB sedows D ase	96
Ch on Dacry cast it with Six C no lae LAMBERT W I Oul Complet to s of Nasal	19	ARY E R BOWERS L G and HESTON H R S gery of the Thero d	107
Sinus D e s	190	NEW G B a d Figs F A Actin myco s of the	267
Opt c Canal in Cases f Optic Ne ve In of		Had dNeck Report of 107 C se DEMEL R JATROU S and WALLNER A E pen	207
m nt Kom averez G F e Ca s f Empaema f the	91	m ntal Stud s n the Relatio of th O an s Ad enal nd Thymust the Thyroid in Rats	268
Fthmod Labyri th with Ruptu e i to the		The class the anymost the anytonian reals	200
O bits	191	SURGERY OF THE NERVOUS SYSTEM	
Nose		Brain and Its Coverings Cranial Nerves	
LAMBERT W. L. Ocular Complet n of N sal	go	WHITE L L Anatom cal nd A Ray Study of the Opt c Ca al n Cases of Opti N e In ol e me t	gt
CRINGER \ P 1 Id nt featin f the Sph od d Ethm d 5 uses	9	FRIEDMAN L J The R ntg Sgn of Inc ea ed	
It is the G is Coses of Lampyema of the Film in Labyr th with Ruptu in the		McConnell A A and Jerrenso C I atricu	198
BAIFR J \ F tal A Embolsm After Pu tur	101	I gaphy in the Loc hz ti n f Intracr ni l Tum rs	199
Itle M Il ry Antrum A top y	¢	Spinal Cord and Its Coverings	
Mouth		RADULESCU A D Obse att n Regarding Si	
MELLANDY M The Life t f D: t the Res t ce f Te th to C res	9	Cases f Compesin f the Spal C rd and the Reult Foll wing L min ct my	198
DEFore T II P Leucoplaki B ccal	tģ	Peripheral Nerves	
STABL O Ope at n f C g t l Cleft P late I d R lt f U t phyl pl ty \ cording		Executed Diet New tor in 1 Prhyzed	
t La nb k TANTOZ i (Tuberculo f the T ngu	19	Muscles	19
TRUESDAL P L Cac fth T ngu	93	Miscellaneous	
	195	Holst J The Pathoge ic S gnifica ce f Chang s	
Throat BLOOM SELD A L a d FELTY A R Bacters		in the Nervous System n B sedows D e e	90
I gral Ob rv ti n n Ac te Ton I to with Referen to Fp lemi I gy nd S cept bl ty	04	SURGERY OF THE CHEST	
Neck	•	Chest Wall and Breast	
TI OMSON SIR SI C DUNDAS GRANT SIR J and		Berti G Re lus D ease	00
KELSON W H Dec Sp sm f th	104	WIESER F Resect on of the Thoracic Willia th Curse f Carci om f the Bat with Special Consideration of the Ed Res Its	
		in	200

201

20

202

3

225

5

5

205

οó

Traches Lungs and Pleura

MANSON BARR P Pulmo ary Americans

Esophagus and Med astinum BUYALDA Experime t 1 Ligation f the Walls of

SURGERY OF THE ARDOMEN

Abdominal Wall and Peritoneum

the (Esophagus

łv

MORROW A S R cur ce of I gun l Herma

After Operati e Treatment SILHOL Loc lized Right Ili P tonitis W th ut

Append citis ASHBY H T Th Afte Results f Abd m 1

T be c los 1 Children WILLSON H S A St d f 1 000 C nsecutive

C ses Whi h P ese t d G st o-I testinal Symp-LAYNE W W d POULTON E P Visce al Pain th Upper Ulmentary Tract

Tour tx J P \ anal Hyst ct my in th Treatm t f P nt nst s Resulting from Abo

Gastro-Intestinal Tract

HED 147 L and GRUBER G B Co g stal in Ad its A Study I the Pyl n Ste R lat hip B tw n G stric Disease d C nit l An males

BUER L II The G stric Chann 1

DUVAL P ROUX J C and MOUTER F Th Sep-t city of the G stric W lls a d th P g tric Lymph t cs in Certain Chronic Gastrod od nal

Ulc rs G EROW J J The Relationship Betwe Gastric Ulc d Append tis

LIMEN M Priher Expense canth Potc Ul rs Ac ompa d by Deformit es I th

ELA SLI N I M lumant Degenerat f G tn Ulc rs

Mo LEY I The Relat n of Gastric Ulc to Car c ma WOLKOTZ K. W Th Surgical Testm at f

C tn Ul r 28 Cases SCH ACK W and Ko Ev P G Ulcers f the Teatm t Acc ding t the R pot f the

gical I culty Chin I the Medical I tt te 11 t ograd

HDR L v J S Th Ch me f Operatin fo G tri d Duod al Ul rs with L pecial R f rence t Ps! roplasty DEAVER I B Gastro-Enterostomy

CLARE T C Ga. tromyot my An Operat n

f th C re of Ch Ul er of the St mach HESS E Gaitn Resects f Ulcer R LEWISORS

Resection f th St m ch f Gastn dD odenal Ul Cb o ISAAC ARIEGER A. Th D tetic Afte Tre tment of Pat e ta Subre ted to Operation (Gastne

LERMANY W Th Relati uship Bet een the Stomsch a d the I t stine with Particula Ref enc to Intestin l Dist b ces Coming n

Alt Operations n the 5t m ch Dorr V V A males [Itstn | Rttn Th ir Embry ! gy an ! S gical Aspects With

a R port f Fi e Cases EISEN P Duode al Regurgitata

t

11

:1

..

3

3

3

25

26

26

7

28

58

,,

210

5

Kosynew A H mun fihe I : 1 Wall

211 Burneres A II The Treatm t f Obstruct on of the Col

WEINSTEEN S Roe tge D gn sis of So-Called Chronic Append citis

FAROY C d BATTWAYN I Mond tt s f I flammation of th Tran re C | n

JUDD E 5 and Fo IDS G S Aden my mat In lying th Sem id

Rosser C P oct logic Pecul rit es fth Neg BONNEWEZ OR YON AN WOpe to I A o-

Rectal Fistula CHARROL E d BÉ ARD H Th Sem ! g cal 1 1 of Dissociated Ict ru

TALLERMANN K H Th Le ulo Te tf Li
Effici cy and I tg t n of the Hep tc Co d tion in I ee cy

SECRET O F rth I est gate so th Lifect of lars u Drugs th Secr to of Bl in D gs 7th F t !

Liver Gail Bi dder Pancreas and Spleen

O DASCHEWITSCH A On Hundred d Six \ w Case f Operat fo Tr p ! I Absc in the Baku D tn t 19 0- 9 8 G LLART Mo Es F Pgm try C h is

Lo Stein L A Report f S m ally Tre ted C se f Hæm rrh ge of th Gall B| dd r Which Ed g d Lif

E DERLETS Th I die t sio and P ocedu G II St Operate

ZWEIFEL E St mul t Roe tg Irradiat of the Sple 205

MIRR II The Inflene f the I er o Phen l lph ephthalem E creti n KRUMSHAAR E B Th Ham lyt po tic Sy t m

in the Primary Anamias with Frth

Miscellaneous

Poposernowa \ W Abdom na! Co tu so a d αń S be ta eo sI ; nes I the I seera

A Th Dff tial D 5 Rose str Sing cal 1bd manal Co dit 7

Malana Correy R C Th Rel t f Ruht 5 ded Abd minal Pain t Right Sd d Disease

205 VON TECRER Cl. cal R lt f P mopent 203 m N TOTAL C d OCH TREWA Retropento-

al Operatio for Subph en Uncess With

INTERNATIONAL ABSTRACT OF SURGERY

220

220

220

Pregnancy

Pregna cy

Complicated by I brods
Schickelé The Damosis f F ta a d Intra
Uten e Pregna cy

GYNECOLOGY

Tenrar Hamorrhage Due to Intra and Extra Uten Fire ds

FOUR FER Harmatomet and a Justa Cerv cal binucou libr d Subt t l Hyste ectomy Neopl t Devener t n of the Ce vir De th One l ar Later

SCHWARZ F I june from R nigen Treatment of

Uterus

LITZENBERG J C Myom to of the Uterus and

REES The Diagno s of Intra Uterine P egnancy

AUVRAY and DELATER A C e of Ruptu ed Tubal I egnancy with a Co Existe t Int a Ute me 226

226

26

225

TUFBLER I Uten Cysts	220	Labor and Its Complications	
ICNT V C Can of th Ut rus CHAITZ II A St dy f the Action of M u ed Lal 1: Do es on C chomata f the Usenne C rux	221	Dayforth W. C. and Dayts C. H. Obstetrical A leges and Ameribee a V. Con d rat n of Vtr. Oxide O jeen a 1 Vanous Combined Methods	26
Dryst AD seu n f Some Caus s fl ffcacy fl fum n Ca cer f the Body f the Uterus Bully H and Hraty W P I H Up Re lts f 9 8 C s of Uterine Canc Tr ted by R lum	22	CHARINER J T DO ONN F P ORESCAN J and COMA L R P inless Childbirth by Synerg to Methods CHARILLON F Injections of Patientary List act in Obstetrics	27
Adnexal and Perl Uterine Conditions NOVAK F n I TeLINDE R W. The I th logs al		RYDER C H B ee h Present ti s T eated by I rophylactic Fyternal Ve n Report of Filty Ni Br ech P ese tati ns T cated	228
An tomy f the Corpu Lut um (Abscess Cyst Hæmat ma and Ne pl m)	232	NARTH B H a d BRINKLEY A S An Unu ual A c lent D ring Del ery at Term COMMANDETR F a d CHAPLIS L The Mecha	28
External Genitalia Diectaré L. Mult ple Cysts f th Vagin	223	n m fthe Sepa at n fth Hacenta and Mem branes: the Curse of D li ery Currellon F T eatme t f Rete ti n of the	228
Miscellaneous		I'l ce taby Inject n nto the Umbil cal Vein Appender and Ruscol. A H stol gic St dy of Two Uterin Scars Due to Casa can Secti n	229
Ky t H Th R lat h p Between the Thyr rh Gland an I the F male Gen t is M CREA H M and B wy r V G nec bigs	195	Puerperium and Its Complications	229
nl Gerl Mie The Rit n Bete Crin Doders fith I mal Pi Orgn n't sympt m Ordn de C deted th Pro i the I bysin	13	PRIBRAM F E The Chitrin Mit boli m Dun gi egn ney ndth F rperi m Thous II A Outl IP to tim Car FERRER Po traitum Felampte Sea res With ut	25 229
Circ VII The I th logs and Teatment of Circ Le co brea Visuther Checal Study (TI Siget		Abumi una V rpt e f atm t I lvuria C e Livr Solat ni Tzavca Tie P th ge e s a d	230
OBSTETRICS Pr gnancy and Its Compl cations		Therape ties II me all lamp a Davit \ The I (at ons I \ Vacc n Th rap) 1 Puerper I Inf cts ns	3
T trunk K H Th Levil se Test fr Li et hit I n in estigat f the H pat et (it n I gn)		Porx nd ka cot St eptococc 1 erper l Sep- ti zemia C e	230
I max I I TI Chit; Mibolin Dingleegn ova libe? spen m Bond i Curry Yout II framines	2 5	Newborn Potter a ! H the Immed to Corre to n of	
Vim Heat e Chinust fthe Prg	, .	Cra al D pre not the Ve born DE Blass B St I s n Iso-Agglut no s in the Blood (th Ve born	230 257
Tank 1 1 1 1 1 2 1 1 2 1 1	2 5	GENTLO UKINARY SURGERY	-37
Tree to tit in the Data Who in in Data to 1D a light plat Complat Len Tree to the both a line in Lyest I Louting i Impact a file Kally I To Tree to tife ere Hypereness (rassarum stackleral)	,,,,	Marry J. The I ic tins f the Tre timent f See re Py to eph to a Comp cating I regin ty Designer and Day Pyel nephriti Completing Liven new Testing to the language in a	2 5

hy a Combinat on of Alkaliniz ton d the Fract es of the Olecra on Phe Isulph ephthale n Te t 231 HAUCK G Ruptu e f th Do sal Apo POSIS II The M dic 1 Tre tment f Pyel t CASSUTO A 23 th First I t rph la geal Joint and Cont bu

The Surgical Tre tment f Nephritis tion on the A at my a d Phys ! gy 1 the 31 Dorsal Aponeu sis STICKEY L Hamatogen us Abscesse of the AUBRY a d PITZEN The R ntg n D gn is of Lid ev 232 Spo dalit Abscess PAYR F Operat Treatm t-Ignipunctu e-

WORLGEMUTH K. in Cases of Polycy to Dege e ation of the Ac te O t myelit Spine Kid evs 23 Ro sing T The Diagno is d T tment f PARKER C. H. Actinomy co d Blast my osa Kid v Stones Based upo Tventy \ine \ rs f th Spine

Evperience 232 WALDENSTROEM II The Esse tial Type of C a The Impo ta e (\ascul \eo Plana CECCAR LLI G format ns in Cases f Reno-Renal S t re 34 AUSSBAUM A

35

37

38

238

BILLET H and MAI ONNET J Spl chn q Anæsthes a in Nephrectomy 234 thology Ita. r. A P toperati Renal Hamor have 235

Bladder Urethra and Penis

LUSENA G Myoplasti Operat the Tre t m at fUn ry Ioco ti e ceinth F male Iomssov F P D t cula and Cysts of th Urethra

Genital Organs

SOUTH MAH dLINELLEA Th P th 1 gy of Neoplasms of th T ts RETSCHAER H L a d MEXANDER J C The Su great P thot gy f Acute d Chome d Ch onic

Ep d dymitis DILLOY J R and BLAISDELL F E S great Path I gy of the S m 1 Vesicle

MACHT D I and TEAGARDEV E J JR R JU Experiment with las I gat n R ts

Miscellaneous

BAR EY J D Th U I greal Aspect f Hæmoohilis PELOUZE P S LOUX H R SCOTT G O Oth rs A Symposi m the Teatm t f

Go orrhoes

SURGERY OF THE BONES JOINTS MUSCLES TENDONS

Conditions of the Bones Joint Muscle Tend us Etc DAWSON, J W a d STRUTTERS J W G ralized Ostet Fb osa with a Prthyrod Tmrd Met st t Cal ficati Ild ng a C tcal of th P th log cal Processe Und lya g Osse Dyst plues

BLOODGOOD J C B e Tum rs Benign B Cysts D t Central O t t Fib osa f th Unh I d Late t Type

TAVER TER Lat Recurrent Osteosa com Rad oth spy Se adary E is n f th Which Appe ed to Have B en Sterilized

The Blood Vessel f the Lower Edofth Femur d ThrR lation to P 241

211

242

24

43

243

44

45

245

46

64

246

49

248

218

49

249

5

250

5

251

5

51

51

PARKER C A. The P thologically Flexed K e Koenles A Typ 1D eac f the Second M t ta s phalange 1 J int

ANHAUSEN G Koehl rs D seas of the Metat sophalangeal J ints Isumo The At of Rad oth n mupon J ts

36 Surgery of the Bones Joints M scles Tendons Etc ERLACHER D ect Neurotizat of Paralyz d NI scles

LEYER E The N mal and Pathol gical Fate of 216 B eT nspla ta KIRSCHAER The C rection of B v D f Imitie 36 DESECUSER H Th R ults I th Impl t to f T'ss in Art ficial B e D f ct

Th Ope ats Teatme t [B e Fis KOLD L t læ

Th T true t f B e ad I t S T bercul is a Child e DISTIER A G T R ch t th Physiological

Principles Unde lying the T tm t f I junes and D se ses of the Art cul to n HEY GROVES E W Arth plasty

BIESALSKI Expert c s with th Phys lo Tran plantati fT dons and It Results Phys logical 233 MCELLE O Clinical Obs rvations on th S t g fT d ns

Expen ces in F B Tanspl a KOENTG E t tio in T bercul us spo dibiti

Turrier O teomyel t I th Lower E d of th F mur T eated d C red by Antist phylococ eu Med cati d Pu cture with A pirat of

a D p Absct SEIFFERT T pl t ti n of knee Te d s

Fractures and D slocations

RUGH IT The Differt of Sprain F c tures a d Co g nital An makes

LAMB TTE A What is the Best Time f r Osteosyn thesis in R cent Fra tures

252

252

252

252

ALBANESE A. An Experimental Contribution to

IMBERT L The Tr tment of Pseudarthrosis by Inj ct ns of Fracture Serum

BRISSET Decap t tion of the Humerus with Intra-cor to d Dislocation of the Diaphysis

Gonny L A O A Repo t of Unusual Gas In fect n with C mpou d Fract re and Bridging of

BOXBLER L The Funct onal Mobilizat on Treat

New B ne W thout a Bo e T a splant

Fractures

the St dy of Wolfi s Law in the Healing of

WIENER F Resection of the Thoracic Wall in the

Horsley J S The Choice of Op ration for Gastric and Duodenal Ulcers with Especial Refer ce

BONNEWITZ O R VON A New Operat n for ano

NATHER C a d OCHSVER E W 1 R troperito

Cons deration of the End Results

to Pyloroplasty

Rectal Fistula

CLARE T C

Course of Carcinoma of the B east with Special

the Cure of Chro ic Ulcer of the Stomach

200

207

208

213

ment fthe Typical Fracture fthe Radius 14.8548T R and CABOUT P Traumatic Le ons of the Wrist in Child in Late Result 14.00EASAR O Rib Fractures and Their Sequelae 15.00EASAR O The Lind Results in Fracture of the	the Report of Two C ses PAYR E Ope att e Treatment—Ign puncture— in Cases of P lycyst c D gene atton of the kidneys 23
P 1 is A Repo t o Seventy Cases Treated D ingth Years 170 - 1721 25 GODDU L A O Th Treatment of a Case of Intra c pul Fracture of the II p by the Whitman	RANZI E and LERECHT O Arterial Air Embo
Mitchod CAMPBELL W. C. Fr. ctur 5 of the Neck of th From HUDBYER A. The E. d. Results of the Treatment of F. ctures of the Ne k. of the Femur. Also a	NYE R N and MALLORY T B A Note on the
C ntrib tion n Non-Operat ve Treatment 23 ALCLAVE Communuted Fractur of the Lower End of the Femur Ost synthe 2 by th Trans	fections
patellar Route Good Re ults	6 L gols Sol ti GRAHAM C I Tet u Its Etiol gy Prophy
SURGERY OF THE BLOOD AND LYMPH SYSTEM	I laxis and T eatment with a R po ton Ca es 25
Blood Vessels	Anæsthesia
RANZI E and Albrecht O Arterial Air Embo 1 m Following Operations and I juries of th Lung	DAYFORTH W C a d DAVIS C II Ob tetrical A algesta and Anæ the ia A Co sid ration of N to s Oude O ygen and Various Combined W thods
Blood and Transfusion	BILLET H and MAISONNET J Spl nchn que
Moo S E. Obse at ons in a Ca of A totrans	Anesth sia in Nephr et my Nurre J C De-ethe part on by M ns of Carbon B oude Inhalat o s with 5 me Obse vatio son P lim nary Ventilat on a d Ethe Te son D nng Anesthesia
D sease Dz Biasi B Studie on Iso-Agglutini s in the	57 PHYSICO CHEMICAL METHODS IN SURGER Roenigenology
VALASSOPOULO A The Harmolytic Action of Sod in Cit te KRUMBHAME F. B The Harmolytopo et c System 1 th Immary harm is with a Fu th r N te 2 th Val e of Spleneet my GLEBOWITSCH W. A Blood Chang s in Sponta	57 DECRIM H K. Y. Ray Th. appy in Toruc Hyper thyroidism 15 FIRDMAN L J The Roe tgen S gns of Inc cased 15 Intercent I Pressure 15 WELSTELN S. Roentge D gnoss of So C Ned Conna Appendicts 16 ZWIFFEL E. Stroud true Poet tgen I rad at on of the Species.
SURGICAL TECHNIQUE	neum Clinical Results of Pneumoperito-
Operative Surgery and Technique Postoperat Treatment SORENAEN J Th Prese t Technique of Laryn gect my nd Various Method Used f This	21

viu

WHITERS S Certan B logical Priciples I Radiat a Tiler py WOO F C The Limitato is the Rad th py of Can Of the Limitato is the Rad the py of Can Case T n upper saloffth by r Viethod f Case T n upper saloffth by dSkin Ketu S WELTHER W I d MELINE O Joe tg n R y MELTHER W I d MELINE O Joe tg n R y	261 26 262 263 263 263 263	PELOTER P. S. LOYE, H. R. SCOTT. G. O. a. d. Others. A. Symposium, a the Treath in 10 Go reheat. PREIES C. A. Tie Fath I girally Fle ed Knee. CARTHY C. F. Tet. a. It. b. logy. Fr. ph. J. is a d'Irratin it with Report. Case. Wood D. T. Th. Lieutati. in th. Rad th. rapy. Carlon Tierra. W. I. Blood. Changes in Spot. G. G. G. G. Met. own. W. I. Inn. Wich. oma. M. Innote C. neer. Re vito A. S. United. (C. er. 1. S. tze la. d. 1901. 1920.	33 45 259 52 66 266 266
C to ix	221	General Bacterial Mycotic and Protozoan Infects	ons
O PLR ADSC C n 15 CC uses II ffeacy	•••	Maysoy B mr P Pulmo ry Amabia.	200
of I ad mi Cs I the Body I th Uterus Battey H HEALY W P F H w Up Res Its	2	New C B and First F 1 1ct mycos 1th Il dand \ ck 1k pc 1 ftoy Cases	62
1 008 C s I Lten C cer Trated by		WARRIET CPC TheT toe tof 1 to my	٠,
TERNIC A The B log cal P ints of Mt ck of the	222	Cases by th Pays with a k port of V	68
	264		
CLASSER O \ I eta t of Gamma Ray Dosag Ik di m	64	Ductless Glands	
GARGA O C The Ching I od cd by Rd m	264	DENEL, R J TROU S d WALLACE 1 T pen	
	264	id en I and I hym toth Thyro fin R t	68
Miscellaneo a		Surgical Pathology and Dugnosis	
KALLO G J H Sh 11 G eral H pt 1 Est b-	265	TALLERS NK II The Le los T tf Li Iffle yad In cetig t fith II p tc Codti I gn cy	2 1
MISCELLANEOUS		Rose two 1 Th Differ 1 Dg or f 5 recal Abd on 1 Condt d T p al	
Ci nical Entit es-General Physiolog cal Cond tions		Mina Corry L C Th Relt fFght Sdd Mb	
MELLANBY M TI Effect of Det o th Re		d mi list t R ht Sd i D e se	8
ta ce of T th t C ne	92	Secretary A. H. d. Little, E. 1. Th. P. tholo-	36
	193	gy f \eoplasm fth T t Leetschwer H L a d \Lexa. D J C Th	3-
B RT G lect D e	193	Sglithigy fAt d Ch Ipilly t	36
Drr N. M. Anmil fitt iRtat n Th. Lmbry igo iSugelA-peet With		Ditton J R a d BLA F E R l	3
	20	-	
PODOBEDOWA \ W Abd mu l C ntu an l		Exp rime tal Surgery	
Sb ta I j es fthe li cera 2		Buraini Exp in tllgto fth Will f	
SURIE E Ut in Cyt H Vr V C Caet fthe Ut rus	2 0	th Œs phagu Ceccas LLI G Th Import n f \ !	
NOVAK E. dT L NDE R W Th P th gr 1		he frm t 1 C es fR oR 1Sut	34
A at my 1th Corp Lut m (Absc ss Cyst Harmat ma d v pl m)		MACTDISIT ARDENLJJ Rej	38
CURIS A II The P th 1 gy d T e tm t of Ch c Le 17 hor A 1 tth Cl cal St iy		Rat Sch. zr Str E S The R l t f S ie i d	
fTh S by t	4	Phys 1 gy	69

BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Urinary Surgery	
Head Lye	170 270 271	Adre 1 Lidney and Ureter Bladder U ethra and Penis Gen t 10 g n	282 283 283
Ear N e	27	M scella cous	284
Nouth	271		
Th oat	272	Surgery of the Bones Joints Muscles Tendon	ıs
N ck	272	C nd to s f the Bones J ats Muscles Ten lo s	
Surgery of the Nervous System		Etc Sug y of the B nes Joint Muscles Te don	84 285
B m and Its C rags Cra 1 e es	273	F t es a d D sloc tions	86
Spn C dand It Co in s	273	O th ped cs in Gene 1	287
Per pl e al Nerve	73 274		
Sympathet c Nerve U ell eous	274	Surgery of the Blood and Lymph Systems	
Surgery of the Chest		Blood Ve 1s	287
		Blood and T ansiu n	287
Che t Wall and B ea t	74	Lymph Vessel and Glands	88
Tra hea L gs d Ple ra Heart d P r card m	274 274		
Œ ophag s and Med st m	274	Surgical Technique	
Mi lin s	275	Operati e Sur y nd Technique P stoperative Tr tm nt	289
Surgery of the Abdomen		Int ept c Surgery Treatme t of Wou ds and	
Abd ms al W II nd Pentoneum	275	Infectio s	288
Gastr Int tinal Tr ct	27	1 at the a	288
Li G‼Bldd PacrsadSplee	277		
M1 llaneous	2 8	Phys co Chemical Methods in Surgery	
Gynecology		Roentge of gy	288
Uterus	278	Rad um M sc lla eo s	289
Adn xal and Per Ut nne Co dt n	279	11 50 да ео з	289
Exter 1Gntla	79		
Miscell eous	279	Miscellaneous	
Obstetrics		Cli cai I'ntit es-G e al Physi log cal Cond t on G n al B cterral Mycotic nd I otozoan I f c	289
Pregna cy a d Its C mpl cat ons Labor nd It C mpl cats	250	i br	280
P erpen m nd Its Compl tio s	28 8	D ctless Gland S r cal Path 1 gy and D agno 19	290
Ne born	\$2	S g cal Path 1 gy and D agno is L pe m ntal Surgery	290
Miscell n ou	28	Ho pit is Medical Educ to a d H tory	290

EDITOR'S COMMENT

O matter what one s attitude may be toward the great social and political experment being made at the prevent time in
Russia he cannot help feeling a profound admiration for the courage and steadfastives of Russia's
medical men in days of storm and stress. Their
ranks decimated at the outset of the boshevist
rigime handlenghed 1'y poverty starvation and
the lack of practically every form of medical
equipment they have carried on in their work of
humanity under handlengts that would seem in, ur
mountable to us accordinged to the privileges

and opportunities of America Throughout the past year the predominating subjects in I us ian medical literature have been those concerned with the results of starvation and exposure. Typhus and its many complications cancrene noma scurvy and more lately gastric pleer have been frequently discu sed topics. In this month a issue of this journal appear a number of abstracts dealing with the subject of gastric ulcer as presented at a recent congress of hus sian surgeons in Letrograd Wolkoff (n 206) reports the results of 281 cases of gastric ulcer treated by simple gastro-enterostoms without rylone exclusion. Hesse (n. 208) discusses the results of various methods of resection and the advantages of resection as compared with gastroenterostomy Schaack and Kornew (p o6) de scribe the results in 136 cases of gastric and duodenal ulcer treated by various methods. The reader will note the consistently high mortality rate due in a large degree to the debilitated phys ical condition of the nationts before operation the relatively large percentage of males affected and finally the frequent incidence of complica tions particularly recurrences stenosis of the stoma and peptic iciunal ulcer After com paring the results reported with those obtained by Finsterer by Ballour Judd and others of the Mayo Clinic and by Sir Berkeley Mounihan one must agree that simple gastro-enterostomy does not offer a sati factory surgical solution of the ulcer problem In adopting for ourselves another method as the treatment of choice we would not for a moment disparage the methods and results obtained by our Pussian colleagues We have only admiration for their steadfastness and cour age in the face of overwhelming difficulties

Both American and European journals furns in interesting reviews on the subject of read surgery to this month is use. From Italy Cassulo contributes a brief article on the treatment of pichtis (p. 232) From France come the descriptions of Vartin (p. 223) and of Duver ex and Dax (p. 223) of their methods of treatin pselonophi its complicating pregning. From Germany comes Payrs as uperston as to the conterv treat ment of cysts of the ki line; (p. 33) and from Demmark Rosvings interestin conclusions on renal calculus (p. 232) drawn from twents nonvalues of the contervalue.

A number of significant contribute as on the subject of radiation theraps will attract workers in this ever wilening pecialty. Wither's di cussion of certain biological principles of radiation therapy (p. 261) Wood's summary of recent work at the Crocker Institute on radiation does e in 261) a critical at praisal of the value and limits tions of radiotherany by two such experts as Case (p 261) and Wood (p 262) an account of injuries observed by Schwarz following roentgen treat ment of uterine myonathy (p. 220) a report of two cases of severe \ ray injuries of deep tis ues by Muchimann and Meyer (p. 63) and the effect of the roentren ray on hone discu sed by Mueller (p 241) form a helpful and comprehensive sym possum on radiation therapy

Among the many varied subjects of interest discussed this month a few others al o describe special mention. Fisher a di usion of the physiological principles underlying the treatment of joint con littles for part of the subject of arthroplasts (p. 249). Simon server of the subject of arthroplasts (p. 249). Simon server of the subject of arthroplasts (p. 249). Simon server of the subject of arthroplasts (p. 249). Simon server of the subject of arthroplasts (p. 249). Simon server of the subject of arthroplasts (p. 249) will prove of particular interest to the orthopedic surrecon.

Rub fractur's and their sequele (p 54) the meff cacy of alcohol as a sterilizing agent (p 250) the incidence of cancer in Switzerland (p 267) the intestinal origin of g iter (p 106) actinomy coss (pp 244 ± 59 ± 268) subjects taken at random from a large number of interesting reviews represent phases of surgery of which the up to-date

practitioner must have an intimate and accurate

INTERNATIONAL ABSTRACT OF SURGERY

MARCH 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

George E J Toren J A and Lowell J W The Study of the Ocular Mo ements in the Hori ontal Plane Am J Oph h 1923 3 s vi 833

I machine called the ocular kinemometer was devi ed to determine the point within the eye through thich the visual axis of the eye would pass at all times during any excur ion in the horizontal plane The point is not the center of motion but is fixed in space vith reference to the instrument. It is determined by means of an adjustable telescope mounted on an arc with a center of rotation arbi trans des gnated as O As the visual axis and the axis of the telescope can be made to coincide the point O and the point on the visual axis to be deter-mined coincide. The relation of this point to the eye or its location within the eye can be accurately measured from the corneal vertex. This is accompli hed by means of a microscope which is mounted at right angles to the telescope so that the corneal vertex may be observed at a r ght an le to the visual

In p actice the patient's head is fixed and by ad justments the visual axis is made to coincide with the ax s of the instrument in an arc 30 de rees nasal ward and 30 degrees templeward. When this is accomplished it is found that the corneal vertex invariably advances when it is turned nasalward and recedes when it is turned templeward observa tions being made at to degree posit ons. A point equid tant from these points would be the center of motion It was impossible to locate it but - point very closely equidistant from the position of the corneal vertex over an excursion to degrees nasal ward and 20 degrees templeward was found. This may be considered a fixed point but after passing 20 degrees templeward the recession occurs at a greater rate and the point becomes a variable The fixed point \$ 15 4 mm posterior to the corneal vertex and 165 mm nasalward from the v sual axis

Computations from these experiments show that the cornea in its arc of 60 degrees moves 15 86 mm the optic nerve juncture moves a 73 mm and the center of motion is nearer the posterior pole. Error in the position of the point O is po sible because of the fact that fixation of the macula occurs upon a small area which the authors believe is only 1/4 mm in its maximum diameter but the variation due to this in the 60 degree arc would be too small to affect the readin s MANFORD R WALTE M D

LiTM Congenital Total Bilateral Ophthalmo plegia 4m J Ophth 19 3 38 v 816

Two cases of bilateral ophthalmoplegia are re ported The subjects were sisters the third and fourth of a family of five children The oldest child a boy is normal the next born a boy who died at the age of 7 years had the same condition as the two girls whose cases are reported. The fifth child is normal. The family history is otherwise negative and in the cases reported the Wassermann test is negative The two cases are almost identical

Since birth the lids have been ptosed only slight elevation being possible through action of the fron talis muscles. The eyes are almost stationary in a di erg nt position a little function being elicited only in the internal rects. The pupils are small stregular and unequal they react only to a pencil of strong light directed on the macular region and then only by a slight alternate contraction and dilatation Atropine semidilates the pupils eserin has no effect The media and funds are negative to the ophthal moscope and refraction shows a high degree of hyperopia with a small cylinder added Some nys tagmus was eli ited during ophthalmoscopic exam mation Neurological examination showed the child ren to be normal in other respects

At operation the external muscles were found pale and flabby and the tendons were thin and narrow with mal insertions. A Reese resection on the inter

nal recti and a tenotomy on the external recti gave

The author d as s the following conclusions The condition in the ases i cong nital and 1 obably hereditar 2 It is probably nucl ar in origin the gangla

I eing partially intact as shown by the slight degree of function of the internal recti and oh noter. Ho ever tis difficult to determine hether the n usis is due to d fective d vel pment of the nuclei or to d g nerati e ch nges in th muscles per s 3 The action of the mu cle 1 so slight that they

are of no aid in the diagno

a Op ration on the muscles in the condition is ot succes ful from any stands out. Cosmet cally t xatio 1 of the globes in the primary 1 osition to the orb tal contents may give better re ults

5 The Hunt Tausley operation for the correction of congenital pros s is not s disfactory because of the resulting cicatricial deformity

MANFORD R WALTZ M D

Rollet and Bussy D latation and Stenosis of th Lach ymal Pas g s (E t s t te

In the triatment of Increocestitis the object i to r move the diseased lachrymal prisages and to provide ne chan el for the d'amage of the lachrymal fluid. The classical tre tment consisted in the extremely p inful use of our ds and entheters because narrow ne of the nasal can I was considered the cause of the lachramation infection dilatation of the ac puricy titis and fi tula. More recently ophthalmologi ts tend to on 1 mn sounding
The autho have measured di sected and studied

by serial s ction in minute d tail 100 diseased Inchrymal ducts that wer removed in a single block From this material th y made the following

determinat ons

I The I chrymal valves are inconstant in loca tion form a d number They are mbryonic rests and malformations which play an important rôle in hindering the drainage of the tears and favor ing infection

2 In 43 per cent of the cases the nasal canal was completely obl terated to a valuable extent into a fibrous cord. In such c ses cathete izat on would be useless and would aggravate th stenosis

3 Dacry cystitis is characterized by a combina tion of thece pioces es (1) leucocytic infiltration of the foll cles (2) d eneration of the epithelium with proliferation of inflamm to 3 c ll d (3) co ec tive tissue hyperpla a The pt dominance of any one f the e processes table hes the clinical type of the condition

4 Dacry ocystitis s u lly of n sal o igin the uflammatory degenerative or hyperplastic lesions b ing most extens; e in the lower part of the canal

The 1 ch ym 1 s nd can l ar a sngle structu c nd re ct to inf ction n essentially th nd as a whole

6 Oblite t n of the ca al does not cause dila tation of the sac In the cases studied the mo t m rked dilatation occu red when the lachrym l

pressage were freely permeable. The dilatate n of the sac probably depends on a tropho clerosis in olving both the sac and the canal There may be dacry ocystitis with either atresia or hilatation f both the sac and the canal

7 The old theory attr buting dilat to n of the

sac to stenosis of the canal is doubtful

8 The failure f co servative operation is accounted for by the fact that dilatation of the sac may occur in the absence of stricture of the canal o In the tre tment the removal of the entie

di eased lachry mal passage is indicated WALTER C. BLD PT M D.

Call han J F Th Treatm at of Acute ad Chronic Dacry cy tit s with Sil er Cannu æ L yng scop 923

Call han recorts the successful use of a metal cannula in the treatment of acute and chron-c The c nnula is of silver or g ld d cryocystit pl ble enough to be passed into the canal and with drawn from the nasal end belo th inferior turb nate and suffice ntl rig d to remain a place Call han u e the largest cannula that can be introduc d into the duct athout f ce and leaves it in place for

thre mo the In acute dacryocystit he opens the al cess through the skin p ss s a la ge prob 1 to the nose through the duct and then introduces the cannula into the duct so that its upperend is blooth or bital f m

In chrome darry ocystitis the method of Agnew is employed an incision being made th ough the con juncti a bet een the carun I and the inner com mi sure of the lids and carried through the sac down to the bone. This incision may be enlarged by cut ting up sard and outs ard

At the end of three m nths cocame is instilled into the conjunctial ac and applied in the region of the lover turbinate. The annul is rem ved i om the nasal cavity with a small hamost twh his turned

o that the cannula is wound around t The chief virtue in treating d cryocystit's in this manner I es in the sound su gical procedure of d ain ing an ab cess from the b ttom

VIRGILA SCOTT M D

Lamb t W E Ocul Compleatin f N Simus Di W M th a 3 1 53 1 6

Frmae new of the lter tues c grwth lation betwee ocul r I sions espe regard to th cially retrobulbar neuritis and inus di ease the co lusion is reached that the als g ment of the ery mportant evidence of such a hl d pot relationship and that therefore careful m pp ng out of the spot should be d n frequently

If the oth rob ious causes of pt c bances can be eliminated in operation upon the no terror thmo dal and sphenoidal cells is justifiable even though clin cal a d x r y ev dence of dis s d s se may be vanting The auth port OTTO M ROTT MD of this type

White L. F. An Anatomical and X Ray Study of the Optic Canal in Cases of Optic Nerve In vol ement Bost II & S J 1923 clax 1 74

In an attempt to determine the reason for recover; in some cases of optic nerve involvement and loss of vision in others. White had roentgenograms taken of many skulls to determine the size and conformation of the optic canaa. I attents with old and recent nerve invol ement and twenty five normal persons were stud of in this way.

In the shotle of fort, stillborn infants it as a found that the enail use of the same diameter as in adults but is a very short. In the cases of normal persons only fix canal (to per cent) where oval. The aver age, ulameter was § 35 mm. In this trents, five cases in which the nerie was in olved there were twenty sat oval canals (50 per cent). The nerie was movice in innetien of these and in it cite of the twenty four round canals. Tielve of the subjects with oval canals are opported upon one recovered In the case in our operated upon there was no improvement. Of the ten prisons with round canalise of the consideration of the consideration of the consideration of the considerations and three vere subjected to one firmassal operations and three vere subjected to one firmassal operations.

The author ira is the onclusion that in cases of severe optic nerve involvement in the nopping canal of 4 mm the opening of the posterior sinuses is indicated. When the canal measures 5 mm, the nerve will recover spontine usly or following local neal treatment. Vir. 1 Western VID.

NOSE

Granger A to itive Identification of tl Sphe n ld and Fthmoid Sinuses J (m lf 1 10 3 l x 336

The position taken his the suthor make use of the glob line. In the diversities is the to fixed points. Heretofore the new alone of the principal points of support that the land properties of the properties of the properties. The support is the line to the support that the line is as a support is eliminated to the support to the most earlier than the properties. In the line is the line of the properties of the properties of the properties of the line line is the line in the line is the line is the line in the line is the line in the line is the line is

Which is no explaced and happet estimated highlight like the sear full pre-letermine libble beads automat. But men if his many control to the sear full pre-letermine libble beads automat. But men if his me part of the side his web them. A compre-sed without causing timor of comfort and the head can be mall to test on the time two points—the all class and glabells on hish did a kelly it when they are falled to on the head seet with their nash loopes inserted in the aperture me to rece them. These two point with the bear as very constant ratin in the cut other experiments and time shapes and times affected with the shapes and times affected with the composition of the head of me analysis and times affected with the control proton in the direct

tion of its longitudinal or its transverse diameter a tendency always present when the nose is one of the points on which the head rests

The best angle was found to be one of 107 degrees when the sphenoid shadow was projected furthest up. This an le was held by means of a block with

an angle of 1, degrees

Let a thorough understand n of the landmarks one must read the or unal article in which the life trations are of as grant and as the text. Suffect to say that the phenoid shado 1 bounded above by a corved line 1 with its convexty up which I formed by the portion of the bonn 1 off of the sphenoid cilled the optic groove. The shadow of the ethnoids is bounded 1 above by a line formed by the inner or cerebral plate of the orbital or horizontal portion of the frontal bone and its inner boundary is indicated by the vertical shadow of the superior turbinate bone, The posterior cell he above and the interfor cells he bow the shadow of the mildle turbinate bone.

Kompanejez G Five Cases of Empyema of the Ethmold Labyrinth with Rupture Into it of Orbits (Fu af Faell n 1 mpyem de S 11 n labyri the mit Dur hir h n d O 1 it) M d J M over 1923

In four of the five cases the empisema dividing of from one to four months after an atta. In it should be from the four months after an atta. In the case it is appossible to demonstrate the building storems and the pirallium of Vincent. In one is ean epidural abscess in the anterior forea of the skull and a diefect in the lamina papiracea were found. In all of the five case, the deviate no of the excluding all the five case, the deviate no of the excluding all the symptoms showed no characteristic hill rence, from that ere when the pir raptures into the frontial sinus. Consequently, the lifeteential symptoms addinged it of Suttimann for the differentiation of advanced is the ethic of the differentiation of the frontial sinus, a these terms of the first the frontial sinus with external region. It is expected to the formal sinus with external region.

Bache J A Fatal Air Emb lism After Puncture of the Maxill ry Antrum Aut p y Colf 10 M / J M 9 3 x 433

A roenigenogram of the untra of a man 40 year lish of al this kine listing m mbrane. Folloxing the usual proc dure a straight 2 min foutside lism etch if cars, 2 pa edinto the shirtum through the night inf nor m title all. Ar force I through the night inf nor m title all. Ar force I through the trocar cau e 1th pint at to collisps. Resuscitation 1 as impossible. Sutups, showe I that death as due to an evible sim the right ventrale an I the couns of the pilmonary artery leing filled with a form of air and blood.

Because of this accident the trocurs no its riel without any rubber connections suction is apple! to determine whether it has entered a vein the liquid is force! through without first forcing any through and air is used to clear the antrum of fluid.

MANFORD R WALTE MID

MOUTH

Mellanby M. The Effect of Diet on the Best tance of the T etl to Carl 1 Poc Roy Soc Med Sect Od t 74 Lo d tore x

Of 302 deciduous teeth of children exam n d n crosconically 84 s per cent showed structu al d fects & high the author attributes to det def mennes Of these only a per cent showed hypoplasia on microscopic ex imination. The occasional secondary formati n of dentine was structurally good or poor according to the dist

Luppi's on a diet including sufficient Vitamin V hal better teeth than those fed a det lacking this vitamin

The author I as attempte I to prove that immunity an I susceptib I to dental caries is d pendent not on the environment of the teeth, but upon the structural pecul arities regulated through the d nial pulp and dependent prin inally on the character of the diet CHIPTER W. PREER V. M.D.

D Porest H P Leucoplakia Buccali A 10 3 1 X 474

In an attempt to review as far as possible all of the articl's on leucoplakia in the current med cal literature the author found that such cases are very rare. As the lesions of this disease vary materially in different persons practically all of these cases are herewith review d and compared

The series of illustrations which accompany the article show the various phases in the development

of the condition.

After 1 cu ing the various synonyms use I for the life can't briefly sk tch n its history the author defin a it as a chr nic and progressive affec tion I the m uth char ct ruzed by the occurrence upon the muc u m mbrane of snow white patches which are s in times circumscribe I and sometimes Ite furth r d scu ion de la with the ctiology s mr t ms p thology liagno is prog n x s and treatment

The etc logy is unknown. Local irritants in the mo th are un juestionably factors but it is probable that the le seisof p rasitic origin. The parasite i probable simil rin h racter t the known parasite which are syphils and th unknown parasite which oft nl ds to the form tion of epitheliom ta in the same r mon. Whether it resembles the spirolether t is a prot zoal form similar to th plasmo hum of malaria 7 xas fever sleeping sick ness or othe diseas a unknown It any rate it seem prof the that it may be destroyed by the same agents th t have be n found to destroy the sp rochatæ

There appe rt lets of airly will marked clinical f rms of the co dition the undeveloped and the

c mm in form In the un lev loped form the advance is slow and accompanied by almost no disturbances. A slight turg scence of the pap like of the tongue is noticed and the normal furrows of the tongue are accentuated

This is the o-called parquet tongue which after a while becomes gray and ultimately white. The papille then become hypertrophied and covered with thick epithelium. After a period of years, small ulcers and true fi sures are formed.

In the common form there are functional dis turbances such as stiffness of the tongue and d fliculty in speech mast cat on and a allo ing Later ulcers and fissures d velop causin pain. Stlivation and an occasional hamorrhige occur du to tearin of the lis ues. The lesions are gravish white pure white or of a gl ten ng it I scent white suggesting mother of rearl

Thre successive stairs are discribed. In the first there is hip rkeratimization of the m cosa which becomes horny and hypertrophi I and sho s a granul r layer rich in creatin or ele din. This layer thing elle and becomes y ry la ge as a result

of the thickens of the horn las r

In the second at g ulcers are form d as the result of the excessiv har lenung. These take the form of fissu es within the r land a and around the r ed es. The fi sures exten I completely through the mucosa as far as the papillar and cau e infl mmators les ons exfol ation disquamation and infiltr tion There may be also a p noun 1 ch n in the submuc us glands

The third stag i ch r t rized by thick nio and hardening of the dura arou d the plan es acl rotic atrophy of the flood essels and dissoci tion compres on an latrophy of the muscular

f bers. In the diagno is the c nil tion mu t be bill ren trate I from thru h cute g porther I stomatitis an i Bedner's aphthr in infant, and fr m aphth us stomatitis chronic recurrent aphtha acute popular glocates ulcerate e tuberculo is of the tongue miliary tuberculous of the tongue lichen 1 lunus ruber and the p palar form of syntalis occurring in a l lts

The lesion has per t d to years and iten for

The author reports a ure in too cases trated by intravenous interfers of sal are n a 1 belie es that this method may prove mor effects e than my other OTT M A TT MD

Stahl O Op ratt n for Congenital Cleft Palat End Res Its of Uranost phyloplasty According t Langenbeck (/ Ope to d me (ume plt + drg b et dr t) pl the blage bek) i hf kl (h mrba. st phyl

11 7

Hildebrand's clin has ac ept 1 L er's detum that in cases of cl ft pal te operation should be performed whene er it is not contra indicated by general weakness or disc s nd suflicient plast o material a present. The typical Langenbeck operation is used almost excluly St hl d scr bes its technique in deta ! It is car jed out under ether narcosis with the patient s he d su pended and the use of a Whitehe d speculum Two lateral incisions are made the mucoperiosteal covering of the

freshened and sutured

The operation should be performed between the third and sixth years The better developed and the stronger the child the earlier it may be done at all events the correction should be made before the child begins school In infancy the operation is dangerous because of the as ociated loss of blood It should not be performed before the possibility of rational instruction in speech since children easily acquire a poor manner of speech afterward. Essential for a satisfactory result is a good nutritional condition This was shown by the stati ties of the clinic for the period of the war when clearly because of the unfavorable nutritional conditions at that time the operation was completely successful in only two of sixteen cases only partially successful in seven and a complete failure in seven while in a total of seventy nine cases it was completely successful in only thirty nine (49 4 per cent) partially successful in thirty-one (39 2 per cent) and a failure in nine (11 4 per cent) There were no deaths The func tional result depends not alone on the successful closure between the buccal and nasal casities but also to a great degree upon that between the velum palati and the posterior pharyngeal wall-therefore upon the length and function of the soft palate When the latter is defective the palatal arch may be itent in by large tonsils. Atrophy of the pharyn geal wall has an unfavorable effect. Of the greatest importance is timely instruction in articulation from a person versed in the physiology of speech or a teacher of the deaf and dumb this should be con tinued for at least three months

In subsequent examinations it is a mistake to examine too many cases in succession since the keenness of one s perception becomes blunted and the occurrence of the errors expected it imagined. The slow articulation of single consonants or world, so not a good test as this can often be performed study citedly when rapid conversational speech 13.

In the cases upon which this article is based the functional results were dependent not upon the age at which the operation was performed but solely upon the anatomical relations of the palate phary nx and tongue and the intelligence and energy of the patient and his family. By means of plaster-of I aris impressions the author found that pronounced changes in the shape of the jax s (above all retraction of the dental arch between the first bicuspid and the first molar) were by no means most pronounced in the cases operated upon successfully before the appearance of the permanent teeth and examined again a considerable length of time after the appear ance of these teeth On the contrary they were demonstrable al o in cases which had not been operated on and even in normal persons with the so-called high pulate. Hence they must be considered as due in large part to decreased growth energy and masticatory pressure STEVERS (Z)

Fantozzi G Tuberculosis of the Tongue (Sulla tubercolosi della lineua) Policlin Rome 1923 xxx sez chir 233

Tuberculosis of the tongue is relatively rare but not so uncommon as is generally believed

The most pronounced primary types are those

due to direct exposure

The clinical varieties may be divided into the lupus type the ulcerative or superficial type and

the nodular or interstitual type

The diagnosis is often difficult Bacteriological
and histological examinations of a fragment of the

and histological exam ulcer are essential

The prognosis is good but the end results will depend upon the thoroughness of the general examnation for other foci of infection. In all cases a roentgen ray examination of the thorax should be made

The lupus type is not amenable to operative treatment. In the ulcerative and nodular types resection should be done well into the healthy tissue. This will be followed by primary bealing. In very advanced cases roentgen and Finsen irradiation should be tried.

Even in favorable cases suitable general treatment should be instituted in addition to the local treat ment in order to combat evident or suspected distant foci and to increase the organic defense

Truesdale P E Cancer of the Tongue An S f 1923 lrvviii 46

This article is based on four cases of cancer of the tongue which demonstrated the fact that except in the agred that lesson gross rapidly, invades the hymphatics early and becomes hopelessly advanced in from six to mue months. The only one of the four patients who is alive three and one half years after the operation was operated upon four months after the first annearance of the growth.

Two stages of the disease are described the initial and the mid period

In the initial stage the condution is suggested by (1) a small plaque like hard smooth and polished sore (2) a change in a simple ulcer causing it to feel sightly stiffer or firmer (2) a very slight thickening a denser white and furrowing in an area of leucophikus (2) very slight and superficial hardening in an area of leucophikus (3) a white warty growth or an extension of the control of the conduction o

The mid period in which the growth quickly passes from the operable to the inoperable stage is reached when the objective symptoms render the diagnoss quite obvious. The cardinal signs of the condition progresses are ulceration pain statement of the condition progresses are ulceration pain. The cardinal signs will be considered to the condition of the condition progresses are ulceration pain. The cardinal progresses are understood and promised the cardinal production are relied and promised and almost never understanded.

The prognosis depends upon the patient's age the stage of the disease and the method of treat ment When surgical treatment is given in the initial stage of the early mid period the operative mor

tality is not over a per cent and a three ye r cure is obtained in at least 30 per cent of the cases After a few days of preparatory hygienic treat ment of the oral cavity the following technique is carried out

With the patient in a semi upright position ether is administered by the intrapharyneeal method

The field of operation is prepared with jodine and a half strength solution is used in the mouth. The neck dissection is done first. A transvers incision slightly curved downward is made from a point about 2 cm below the lobe of the 1 ft ear to a corresponding point below the right ear. The incision through the skin and the dissection of the flap are done with the knife. Then with the cautery knife the lymphatic gland bearing area is dissected en masse and the entire cervical region is thus exposed In the removal of the subma illary gland on the healthy side care is taken to preser e the hypo glossal nerve and the lingual nerve between which the duct of the gland passes. In dissection close to the ramus of the jaw there is danger of injuring a small branch of the facial nerve supplying the angulæ oris This nerve is superfic al and very small Its severance causes drooping at the angle of the lower I p

When the dissection has been completed the skin. margins are brought together and a rubber tissue drain is placed in either side of the neck

The second part of the operation consists in the removal of a part or all of the tongue The tongue is drawn forward on a retention suture passed through its tin. The mucous membrane on the floor of the mouth is then incised and dissected fre the line of separation being fully I cm distant from the growth The I ngual artery standing out somewhat like a cord is n vt e posed by blunt dissection and tied. The body of the tongue is divided along the raph with c re th t the line of division extends wide of the growth The di eased half of the tongue is d awn unward and removed by cutting the gen ohyorlo su muscle and meet ng th mid! ne inci on by a curved section at the root of th tongu

The author refers to the vork of Warren who demonstrated that the base and the body of the tongue are separate that the lymphatic system of these two areas is quite di tinct and that the lymphatic system of the two h lves of the tonoue is separate Because of the e facts it is feasible to lea e the base of the tongue when the site of the cancer is limited to the body and to remove only one half of the tongue when only one margin has been in aded by the growth

In the author's cases the power of speech with lingual phonetics returned oral communication being established in from seven to ten days after OTTO M ROTT M D the operat on

THROAT

Bloomfield A L and Felty A R Bacteriological Observations on Acute Ton illutis with Refer ence to Epidemiology and Su ceptibil ty

The subjects studied by the authors were son young women members of the training school for

nurses of the Johns Hopkins Hospital On the basis of their own experience and the reports in the literature the authors assumed that acute tonsillitis s usually an infection caused by hamolytic streptococci of the beta type. This supposition was confirmed The plan of study was as

follows I A detailed survey of the experimental group for hæmolytic streptococci at a time when no acute

strentococcic disease was present 2 A bacteriological study of cases of tons llitis occurring in the group sub equently in order to determine hether (1) tonsillitis is an autogenous infection due to a strain of streptococcus previously carried by the host and if so what factors lead to the seasonal outbreak or whether (2) tonsill tis is an e ogenous infection due to some external strain or strains

The determ nation of the relation of carriers and contacts to the spread of tonsillitis in the group 4 The determination of the relation of the season weather oth r 1 fections etc to the outbreak of

tonsillitis General enidemiological ob ervations to define epidemic and no ad c disease

The findings w th regard to the b cte tology and the relat on of tons llitis to previous carrier states are summarized \$ follows

I Acute tons ll t was invariably n infect on with beta hamolytic streptococci

2 The disease affected almost uniformly a group of persons who were not pr viously carriers of this organi m

3 Only one of the carriers who were eau lis ex po ed de eloped acute tonsilitis

4 No pecial cli cal or bacteriological associa tio 1 could be demonstrated between successive cases of tonsillitis in the group

The authors pres nt evid nce demonstrating that an extensive outbreak of tonsillitis is not a true epidemic but only a group of sporadic cases. They c nelude that tons lect my prot ets against acute streptococcic inf ction of the lymphoid tissue of the A R HOLLE DER M D throat

NECK

Thomson Sir St C Dundas Grant Sir J a d Kels n W H Discu t n on Sp m of th Laryng B # M J 10 3

SIR ST CLAIR THOMSON draws attention to the f ct that spasm of the larynx is a spasm of the glott's The causes of spasm of the glottis i clude local irritati n irritation of the mot

nerve lesions and hysterical and functional dis

orders
\text{\tincr{\text{\texi}\text{\text{\text{\text{\texicl{\text{\texi}\tiext{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\

anæsthesia and (be diminished by

1. Old age anxmia drugs such as cocune orthoform menthal morphine chloroform and other anxisthetics and general affections such as influenzatyphus chol ta an I pneumonia.

2 Affections of the nerve trunks as in the peripheral neuritis of diphtheria and conditions involving the superior laryn cal nerve such as paralysis of the

lary ngeal muscles

3 Central affections such as the bulbar lesions of locomotor ataxia general paralysis glosso laryngeal paralysis syringomycha multiple sclerosis hæmor rhage tumors and gummata of the medulla

All of these conditions lead to spasm by lowering the sensation by a high the glottis is protected

Hyper-sthesia cruses spism by sending an exag grated warming to the medulla. Among the causes are abnormal conditions of the general nervous system (such as is present in internia neurasthenia latigue dyspepsia and alcohol m) acute and chronic lari ngitis and 1 probydermia. Reflex causes may be tracel to the tonsils nose ears teeth or thyroid gland.

Neuroses of motion are aused by lesions which irritate the recurrent laryngeal nerve in the neck. These include aneurisms tumors cancerous growths

The most common central les on is that due to locomotor at xxx

Sir St Clair describes the phenomena of glottic spasm an I discus es the difference between adduc

tion spasm an I ab luction paresis

In the immediate treatment inhalations of chloro formormatracianylare effective. Between attacks the con-luon responsible should be sought. All causes of irritation should be avoiled. In functional cases, bromiles are beneficial. Attention to the gener I condition is of great importance.

Sig Jaurs Deanes ("Reer believes that in adults the chief factor responsible for glottic sprays us over action of the centers in the bulb of which the alfue tor centers appear to be the stronger. In children (with living mus tribuls) the trouble is due to hyperactiability of the cortical centers fir addition (the cortical centers fir addition (the cortis

Laryngismus stri lulus he attribute to a deficience

of calcium in the blood

Arts s draws attention to the fact that the mixcle which eye the arrays in the livran are stronger than those which open it an I that therefore the ten in or of an in-ene trustation of section reflex as not one closure. It clks of plottic prism are protor one closure. It clks of plottic prism are protoned to the control of the control of the mixture of the control of the control of the research of the control of the control center is suppressed. Of the center of the control of the control of the ferred mo bit ion hitten favoring glottic pass

nickets appears to be the most important. It has been suggested that the lary ngeal attacks are analo gous to asthma. Orro M. Rott. M.D.

Soerenser J The Present Technique of Laryn gectomy and the Various Methods Used for This Operation (Ueber den heur en Stand d'r Tecknik der Aehlkopfer urpation nebst den er sch dene fær dese Operaf nagewandt in Method n) Zen in S filol V sen w Oh en heilt 1923 in 161

Soccasen reviews the history of Jary ngectoms from the first operation performed successfully by Billroth in 1873. Con iderable improvement in the technique of this procedure in the course of fifty years has resulted in a very d oded decrease in the more table. The formerly attempted union of the trackiest stump with the pharyrish has been abunched to the considerable simply of the pharyrish has been abunched to considerable simply of the considerable simply of the considerable simply without the phary is the considerable simply without tension prevents the inflow of saliva and food

The majority of German surgeons and many others begin the estimation of the lary in from above and divide the tracked only after the toolet of the phary in and vound has been completed. The late opening of the air passages is an important factor in decreasing the danger of wound infection. In Germany mo taurgeons prefer local anasthesas but in other countries chloroform anaesthesia is often chosen.

Di eased gland if they are not very large are removed with the larvax. In the author's opinion even cases with extensive glandular metastases should be operated upon

The after treatment is of the greatest importance. The patient should be gotten out of bed within a fix daxs after operation and should be given a concentrated diet through a tube introduce? I through the noe. Re piratory exercises and cardiac stimulants are also indicated.

Trapping (Z)**

**Trapping

Knaus II The Relationship Between the Thyroid
Gland and the Female Genitals (Zur Korrel in n
h n Thyroide und teonical)
II hen C n (21)
II h m d II h h o o o o o o o o

The thyroidectomy performed at the Graz clinic is n ith all and followed by abnormal uterine bleeding. Anaus attributes this to a temporary hypothyroi lism acting up n the ovaries

Dunham II k \ Ray Therapy in Toxic Hyper thyroidi m Oi St 1 II J 0 3 1x 713

In the authors opinion, the Vrss properly used will cure except, case of byperthous that surgery can cure and others in addition. In the surgery can cure and others in addition, the surgery continues to the surgery can cure and other in addition. The surgery can cure and can be obtained by the surgery can be surgery can cure and the surgery can be s

objects in that can be raised to it is usually erroneously estimated by comparing cases of different

severity

The ir t and most important factor in the treat ment is a correct diagno is. The second requisite is a knowledge of the lisease and the method used in the treatment. The third is the time and opportunity to care for the nervousness. The fourth is careful attent on to the general health. The technique employed for \ ray treatment consists in exposing each I be of the thy rold and the thy mus separately always protecting the laryny. The treatment is repeated every three weeks and controlled by the m tabolic rate ARTICA L. SCREEFER M.D.

Sle ine r F C A Note on the Intestinal Theory of I tophti almie Colt r I 11 or to t

I vophth imic gotter is invital associated ath definite hyperplasia of the thyroid cells severity of the condition c n le d ternined from a study of the pathological chan s in the gland Many of the signs an I mptoms of the d sease are th se produced by excess other absecrets n. The cau e of the thyracl hyperplas va u certain

The thyr id is intimately as oci t 1 ith the oth r gl n l of internal secr ti n an l i articul rly ith the a Irenals. In exopl thalmic guiter it appears that there is a me common factor at work which c u es over stimulation of both the thyroid and the adrenals. When the occurs a vicious circle is et up the thyr id stim lating the adrenals and th a frenals in turn furthe stimulatin the thar id B th of these gl n l h c an inhibitory action on the paner as a f ct which exclain the ch nees in th carbobadrate in tabolism and the fatty stocks

sometimes ningitr

The acts e pri ciple of the thyrosi glani is ther am an jodin compound f treptophane ldr nalin is a compount base! upon tyro ine Both try tophane nit tyro i e are lerived from the breaking down in the intestine of the protein molecule in a high these amino acids occur. D ring normal metaboli m considerat le quantiti s r ult from the 1 gestion of the pr tein in the field A certain amount 1 b rb la su hand a cert in amount : Ir kendownb th I te ia in th bowel The ltre quantitis I pen I upon the ext at of I cterial activity theref re d'ficient bacterial ctivity in the intestine ill result in excessi e absorption of trypt ph ne and tvr isi e The e sul stan es re l b rated al o in the breaking do n of the body proteins by the cellular enzymes in such con I trons as stars ation and other state of incr ti sue destr ction. It therefore appears possible that the supply of tryptophane explains in part at least the criss in the to ic condition following loss of we ght in cas s of exophthalmic goiter

The thyroid and the adrenal may then be new d as factors s which refd ith ra mat rial in the shape of tryptophane and tyrosine and build up that material into the finished prod cts thyroxin and

a Irenalin Normally each of these glands can re pond to normal fluctuations in the supply of ran materials by increased producti n st ring the products locally unless they are called into circula tion 13 the stimulus of the other cland

In the thyroid expansion can occur by hyper I lasta of the secreting cells under the double stimulus of increa ed raw materi I and adrenal stimulation The supply of raw material while varying some hat accord ng to diet is dependent mainly on the bac ternal activity of the intestine An excessive number of intestinal bacteria especially in the small in testine leads to a deficiency in the supply and deficient or altered I acterial acti ity is followed by an excessi e supply and consequent hyperfunction of the glands. In the early stages of exophthalmic gotter there is an excess of adrenalin in the blood stream. The evid nee in regard to thyroxin is less d rect but an increase in tryptophane cannot be foll wed by exces we production of thyroxin unless

tle rodine supply is adequate

I dine metabolism is not clearly understood. It appears however that the thyroid is almost alone in teing able to fix iod ne to a protein base con sequently a large amount of the iodine abs rhed must b excreted unch nged. On the other hand the thyroid appears capable of conserving jodine to a remarkal le d gree when the supply is deficient Marine has been able to prevent goiter in school children by the administration of a gm of sodium todide a year. In this connect on todine Basedon s di ea e is of particular interest. This condition occu s in persons usually those with a simple goiter who are treated with jodine A condition of thyrotoxicosis results which is very similar to exophthal mic g iter and often associated with exophthalmos If the hypothesis advanced is correct, these persons are abso bing an excess of tryptophane from the bowel an I the condition is potentially ex phthalmic goster. When the necessary lod ne is supplied by treatment the excess of tryptophane becomes oper ti e

The is little it ubt that the ult mate treatment f xophthalm; cotter all be medical. As yet no trictly med cal ir tment of the disease ha be n devised but medical measures are employed t treat special symptoms and to tide the patient ove the crises in the course of the intoxicatio when immediate surgery would be disastrous

Up to the present time surgical treatm at based upon the one incontrovertible fact of overact on of the thyro d has been found the most sat factors but while it controls it does not cure

ARTRUR L SIR F LER M D

Holst J Th Pathog nic Significance of the Clanges in the N ryous System in Basedow s Di ense (U be i path g t h Bed t g de V nd r g m Ne e st m beim M bu B ed wi) Ad m d S d 19 3 l 306

After disc s ng the a ous clinical associations and relations of exophthalmic g ter to dabetes neurasthema traumatic neuroses and epilepsy the author reports the findin s of his experimental work

on exophthalmos In an attempt to produce exophthalmos by chronic protation of the cervical sympathetic nerve cells two methods were used viz the injection of bovine tubercle bacilli and the insertion of sterde strand of silk into the cervical sympathetic ganglia of rabbits The results of both method were negative

The effect of retrobulbar venous congestion on exophthalmos was next investigated Ligation of the external jugular vein in rabbits caused marked on estion of the retrobulbar veins and varying degrees of exophthalmos but these disappeared with the establishment of collateral venous channels The effect was the same whether the cervical sympa thetic can lion was extirpated or not. The injection of from 10 to 20 c cm of 1 r into the right heart by

av of an ear vein produced marked retrobulbar senous congestion and exophthalmos which per sisted after death

Hol t concludes that the exophthalmos of Base disease is due to venous congestion in the retrobulbar veins and not to contraction of Mull r s muscle caused by stimulation of the cervical ampa thetic nerve fibers

WILLIA P LAN W GENEN MD

Arn E R Bowers L G and Huston H R Surgery of the Thyroid Oh Si & M J 923 7 7

After classifying the various types of goiter the autho s offer suggestions worthy of consideration for what they term bad risk cases As such cases they classify neglected adenoma with hyperthy roidism and Grave's disease Tersons with goiter who are bad risks should be prepared for operation with care I est in bed in a hospital for a few days or a fe weeks with alleviation of angety worry and fear as far as possible and no mention of opera tion is the ideal preparation. They should be given

as generously as possible a low protein diet and large quantities of fluids Glucose and bicarbonate of soda should be administered until the urine is alkaline and ice caps applied to the goiter and pre cordial regions. In some cases transfusion may be indicated Digitalis should be given until a phy siological effect i produced Occasionally radium may be applied to part of one lobe Bromid's and morphine are of decided value when physiological rest has been induced

The operative treatment of choice is lightion done in the patient's room under local anasthesia. In the cases of very nervous patients gas oxygen may be used. The authors employ for all ligations and for nerve blocking in thyroid ctomy i per cent procaine freshly dissolved in normal salt solution without adrenalin Operation is stopped at any stage and the vound packed with gauze if the patient shows serious signs of depression and if his margin of safety is endangered. Hamostats may be left on temporarily ligation or removal being done the same evening

At the end of from twenty four to forty eight hours the vound a closed under local an esthe ia With regard to the postoperative care, the authors empha ize the importance of supplying large quantities of fluid often as much as 5000 c cm daily Absolute rest is induced by the us of co deine and heroin Digitalis may be used for stimula tion when nece sary. Hyperpyrexia 1 treated by the use of cold This occurs I ss often following local anæsthesia than after general anæsthesia When tracheitis develops inhalations of steam bearing tincture of benzoin give rel ef. The occur rence of postoperative tetany while rare 1 com batted by the administration of from 10 to 30 gr of calcium lactate in a glass of distilled water every hour until the spasm have subsided and subse quently every two hours for three to six days and then before meals and at bedtime for a month ARTHUR L SHREFFLER M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Friedm n I J The Roentgen Signs of Increased Intracrant 1 Pressure \ 1 ork M J & M d K c 221 x 417

The scute type of increased intracranal pres use follows frauma and is mand is ted orentgen logically be areas of increased illumination with int vening spaces of normal density. This is trace occurred in opper cent of cross of concussion and its oper cent of cases of fracture due to trauma. When a small special control of the control of the resulting homatoma is recorded in reptured, the resulting homatoma is recorded in the conference area as an area of diverse of their logical control of the con-

The subacute type of increa ed intra ranial pres sure is seen at a more rem to date f om the injury and presents a similar but less di tinet roentgeno-

loxical appearance

The chr me type his homay be either congenital or acquir. I is manifested in the roentgenogram by cre centic areas of osteoporos s of the inner tail to of the skull. If the engenital type is unaccompanied by unto a 14 jung flows time and le ignored, it is the cases of unruly or mentally defective children the progen is a una vorable.

Roentgen grams demonstrating the congenital type I intracranial pressure may be I value in judging some of the criminal classes of insane

Intracranial less n including tumors rar ly show the rountgin endences of iner a ed intracranial pressure Charles II II cock M.D.

McConnell A A and Jefferson C Ventri cut graphy in the Locali ti n of intracranial Turn r B t M J 9 3 1 799

McConnell describes an apporatus which is at tached to the leat to k q the train neelle in piece during the a piration of fluid and th introduct in of air. In his fourteen cases he obtained at lactory entricul gram in nine an lin four of the en their mud the lugin 3 possible. In one of the four a es the condition was a turn of the creb feliopontine angl in an inter a frontal lobe tumor an lin thet oothers als no fithe po terior loss.

In the fiv other cases the sentriculogram merely corr borsted the chincul dagnosis. Two of McConnell's patients fel after the examination and o is during the intr-duction of the brain needle before the introduction of ar

Jefferson reports six cases with one d ath that of hydrocephalic child In only one case was a positive diagnos made possible Int o cases the ventriculogr m gave only corroborative evidence and into others was of no aid.

Both authors agree that the method should be used only after a most careful neurological exam nations has fauled to localize the lesson and emphas ze the indications and technique originally described b Dazid.

Local Ports Will

SPINAL CORD AND ITS COVERINGS

Radulescu A D Observati ns Reg rding Six Cases of Compres I n of th Spin I Cord and th Result Foll wing Laminett my (Betra h iu g ber 6 F lle von h mpre des R eck m kes u d d Res hi i n h Lam ki m) Cl J Imd 9 3 i 74

Case 1. Iman 26 years of age was thro. In dwa be a raylo ion. The accident was followed by a short period of uncon cousness and later by fattewist and pann in the lack. Finally, he was alle to his work only in a bent-over position and with the aid of 1 canes. The finding sat the end of a year were kyphos so the thorace vertebra? Soft and the fourth and fifth thorace vertebra? Soft tend in each of the pressure weak patellar and white reflects a shence of ab lournal wall and i cremit tereflexes absence of ab lournal wall and i cremit tereflexes alsence of ab lournal wall and in the proceedite of the control of the process of the process of the control of the process of the p

Laminectoms of the fourth and fifth the cic vertelize was do e under local anesthesia. The rich of the fifth vertelize was found ir rigul. It thickened. In the verte bral. If it a section of the eighth rib. 6 cm. long. w. inserted. V. c. mplete cure resulte it.

Case 2 Arran go 25 fage was buned under fall g et th suffering an inemplete fract re (?) of th 1 venth and twelfith critebox. Mere a farmouths igns of empres; n wer not d from the size of empression were not a layer ly and foot druss was present. Sum faces were b nt. Disputh and co ships in cases being necessar. Asphos. I case a present at the led of the tinth t. If this the rec-vertebra at the led of the tinth t. If this the rec-vertebra

The d g o is was tr um tic pont litt.

Liminectomy of the tenth to twelfth thoracic ertebræ was d ne and the d feet cored in the bone taken from a r b. The put nt. n. 11 to walk

without a cane

Laminectomy from the twelfth thorace to the second lumbar vertebra exposed a large yellowish soft intradural tumor. This could be removed only partially. The histologic diagnosis was lipoma. The operation caused no improvement in the condition.

CASE 4 \ man 20 years of age received a blow on the back from a log of wood Immediately there after he was unable to move his legs. Later he developed urinary incontinence large bed sores and disturbances in sensition in the lo er extremities. The diagno is was compression of the cord by callus

Laminectomy revealed the arch of the first lum bar vertebra sunken and thickened by masses of callus. The comprese de ord was freed Gradual improvement followed. The urinary incontinence ceased and the path in became able to walk, but his gait is like that in tabes.

Case 5 A man 24 years of age had suffered for

four years with pain in the back, an increasing sensation of h ayiness in the limbs and sensory, disturbances. When he was seen by the author or animation revealed spastic paraparters a positive Balunshi reaction tenderness on pressure in the region of the fourth and fifth lumbar vertebre a positive Nome shell reaction of the spinal fluid a positive Nome shell reaction of the spinal fluid a positive Pandy reaction and timphocytos. The positive Pandy reaction and timphocytos are were negative. The approach of the Wasserman relations were negative.

I ammeetomy re ealed at the level of the minth thoracic vertebra a grayish red tumor with a pedicle whi h had its origin near a posterior root. This varemoved. The histologic diagnosis vas fibroma

The result v as complete recovery except for slight anysthesia in the l ft leg

Case 6 A man 56 years of age as kicked by a horse Examination revealed a distinct projection of the first thoracic vertebra tenderness of the be or cervical vertebra complete paralysis of the right arm cedema sensory disturbances and restriction of active mobility of the lower extremities in the dors'il position. The N-ray revealed a fracture of the six than disventile cervical vertebra.

Laminectomy was done from the sixth cervical to the first thoracic vertebra. The arch of the sixth cervical was found displaced laterally. The operation was followed by complete restoration of function and sensation in the arm.

The question as to hether traumatic spondy hit is due to a fissure of the vertebra or to a rarefying ostetis resulting from nutritional disturbance has not been decided Case 1 and 2 suggest that the first theory is correct. The differential diagnosis from tuberculosis and syphilis of the victebra is often difficult. The treatment is generally conservative (a plaster of Paric acts supporting apparatus etc.) The author excomments these theorems of the operative defect with bone taken from a nuber regards as of special importance. The rocingen ray shows that the graft heal in well

WORLGEMUTH (Z)

PERIPHERAL NERVES

Erlacher Direct Neurotization of Paralyzed Muscles (Di ekte Neur tisse ung gelachmter Mu keln) Zisch f rihop Ch: 1923 vl v 4

When direct suture of large defects in nerve is impossible neurotrazion may be of value in suitable cases. Direct implantation may consist in reimplanting the sectioned or injured nerve into the same muscle the implantation of an alten motor nerve into the paraly zed muscle or hypermeurotization in which a motor in rvc iss made to gro into a muscle still having it own nerve.

Muscular neurotization is indicated for example in cases of infantle paraly sis in which a tendon is not available for a plastic operation and nerve material is difficult to obtain. In such cases either a trans versely freshened paraly zed muscle may be sutured boosdly to a transversely freshened paraly zed muscle may be sutured boosdly to a transversely freshened diapy with its own good nerve supply need to be such as the such case of the case o

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Berti G r Rectus Diserse (C r ib t all stut della mal tua d keclus) i stal d rb 10 3 ii 770

Betti reports the macroscopic and micro copic findings in three cases of Systic degeneration of the breast (Reclus disease) and revi s the literature on the subject. The three mun theories with regard to this d sease are that it is of neoplastic origin that it is so find/mination; origin and that it is of ind/mination; origin and that it is due to that it is of transmatic origin and that it is due to that it is of transmatic origin and that it is due to the control of the control o

Of the three cases r porte i only one give e idence of biliteral involvement in all of them the I reast involvement was complete but there were no axillary

or clavicular metastases

The histologic examination of the breast to use showed that the actin varied from the embryonic type to those that had undergone various stages of existic degeneration some were filled with cu boul I epithelium with the cells arranged concern tire. It to form Jumina. The lumina varied in a ze according to the degree of involvement. They also not also made and the second of the second control o

In cert in areas the layers of prohiferating epitelium justed into the lumen until they became segregated from their source of origin and und rwent degenerative changes of the cyst enlivery of special control of the control of the

On the basis of these find ngs the author 1 pets the up that the cystic changes are due to obliteration of the excretory canals communicating between the acun and ducts. In support of his carduson he quotes Delbet who reported that follo ing lighton of the lactiferous ducts in a lactating breast no cystic changes over found but eventually right and tropher actions of the basil 1 yet and of navid ement of the skin lymphatics and muscula true. Best tregged site de descae as beings. He differentiates between the cystic change and adenoma of the mammary gland the latter presents a cir

consended and encapsulated mass while the former is a diffuse condition involving the entire gland. He belie es that throne inflammation is not the eto in real factor since at the outset inflammatory processes affect primarily the parenchymators structure which the intervening connective tissue which is much more resistant provides for repria which is much more resistant provides for repria discussed in the best statement occurs in Reclus discussed in the best statement occurs in Reclus discussed in the statement of the provider of the

Briefly Bettl characterizes keelus duesse as meetly a hyperplass of the connects c stusse poporting the gl od. The cause is still unknown. Though he is convained of the persustently beings tendency of the changes he admits the remote possibility of a superimposed malignancy the relationship being similar to that between a chronic gastric ulter and subsequent cartinomatous development. He therefore advices total removal of the breast.

Wiener F Resection of the Thoracic Wall in the Course of Carcinoma of the Breast with Special Consideration of the End Results (R extund rTh xw dim Vetl (d s M nm Cacn m nt beso de er Beruccks htyru d Dau tree list) Bei z kis Ck 1923 cx i

In spite of the seem 1, successful results of reentgenotherapy the author bel ever that me given case of c remounts of the breast which is given case of c remounts of the breast which is adherent to the thoracce wall and pleura a deal operation in the resection of the threace wall and operation in the resection of the threace wall and operation in the resection of the threace wall was a case with the resection of the threace wall was a case with the resection of the threace was and in set trated by first extern was not be dath and in size case treat d b. Kuettner there was no operatic mortal ty.

Two of Tietzes file picts who survived the operation were all e all well it the end of it o and file year respectively but three did of recurrence et ven minhs one yer and it o years late. On of yon Fischberg sip trents remain difference for the years and an there for to operate Similar sails his beer report obly others good

MA N DEL (7)

TRACHEA LUNGS AND PLEURA

Manson B hr P Pulmon ry Amerikasis La

The author reports the cases of p lmon ry infect in with entumerba bist bytic in which the diag mossis as in doubt b timmediate improvement followed teatment with metin operations and ith special. In more of the cases was the cevelence of liver involvement not were the entumerba found in

the stools The diagnosis was arrived at by exclu sion and strengthened by the remarkably prompt recovery following the institution of the usual treat ment for dysentery of the entamorba histolytica type The lesions were probably of the nature of consolidated bronchonneumonic nodules This

sould explain the absence of amorbe in the sputum Pulmonary amorbiasis may be secondary to a liver abscess which does not cause symptoms and therefore remains undiagnosed until after it ruptures through

the diaphragm. The author reports two such cases Manson Bahr dray a the following conclusions

1 Pulmonary amorbiasis may develop independ

ently of hepatic abscess 2 The pulmonary condition may simulate bron

chonneumonia or miliary tuberculosis The diagnosis is based upon the evidence of

amorbiasis leucocytosis and remarkable and lasting response to emetine and inecacuarha

4 Rupture of a hepatic abscess into the lung may occur without previous warning or the coexistence of henatic symptoms

5 The resulting pulmonary infection may closely resemble idiopathic disease of the lung such as tuberculosis or bronchiectasis in both its local signs and general effects

6 The therapeutic action of emetine and spe cacuanha is as striking in this as in the first condition and as generally recognized is more rapid and lasting than in amorbic infections of the bowel

7 Secondary infection of the respiratory tract with yeast fungi (monilia) may occur (so called This appears to be of little bronchomoniliasis) diagnostic importance and possibly is of no etio RALPH B BETTMAN M D logical importance

GESOPHAGUS AND MEDIASTINUM

Rufalini Experimental Ligation of the Walls of the Esophagus (Sulla leg tura parietale dell esolago) Arch stal d ch 1023 VII 567

In a series of experiments on rabbits the author tied off nortions of the exsonbageal wall with silk ligatures including all of the layers but avoiding constriction of the lumen The portion ligated resembled a small diverticulum. In all cases he found at necropsy a necrosis of the ligated tissues and a surrounding ulceration of the mucosa. In the cases in which the ligature was applied in the cervical region there was a marked and extensive peri exophageal inflammation involving th sur rounding cellular and adipose tissues. When the ligature was applied to the abdominal portion there was a limited reaction which led to a nodular

In view of these experimental findings Bufalini does not recommend a simple mass breature for the treatment of small diverticula in the cervical and thoracic portions of the esophagus

IAMES V RICCI M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Morrow A S Recurrence of Inguin 1 Hernia After Operati e Tre tment t 3 g 1923 1 m 524

The operative cure of inguinal herita requires sound surgical jud-ment in the selection of the cases and the operative procedur and considerable technical skill. Vid tinction should be made be tween the direct and ind rect types and evid no of recurrence should be determined by examination rather than from the statements of the patient.

Recurrences are due to faulty selection of c ses or of the type of operation faulty technique or

operati e accidents

Cases in a bach the condition is apt to recurrequiriles of the technique used are those in which the conjoined tendon is a cak or absent and the abdominal wall is weak also cases of large oblique heriais of long standing which contain gut or omentum and frequently are complicated by sliding heriais.

No one operative procedure is applicable to all cases but r moval of the sac alone vill cure a certain number. Transplantation of the cord is usually advisable. In many cases of deet h rare suture of the inner leaf of the external oblique to i oupart a lugament and reinforcement by the transplantation.

of the rectus are necessary

Technical errors include failure to sept ate the sac from the transversals face a thoroughly leaving to large an pening for the cord failure to rimove the sac and futre to recognize an a sociated direct herm: the so called saddle bag type. Sutures are frequently put in so tight that they cause con striction propositions is all the same propositions are supplyed to the striction of the same striction.

The mot fr quent causes of r currence are suppuration (, hich is follo ed by re urfrence in joper cent of the ases in which it develops) premature separat on of th deep sutures due to improper tying too early absorption of the sutures strain from retching and vomiting following general unwathers and slipping of the ligature from the neck of the sac. M. L. Mason M. D.

Silhol Localiz d Right Iliac Peritoniti With ut Appendicitis (Périt a te l lisé il q es dr tes appe d'at 1 ck f obligat de k 9 3

The author reports three ca es

Case t Th patient was a woman 47 years of ge ho expe senced a sudden attrack of pain in th lower p to the blomen nith loc lz d tend r esa at M Burney's point an reua thist polyuria and pain on micturation. A blood count showed 8 oos leucocytes. At operation an inflammatory mass of omentum adherent to the cacum was removed. The appendix was not seen. The wound was closed without drain ge. Recovery was unexcentful.

Case 2. The patient was a man at years of age. The c addition began one wear previously with fitter mittent attacks of abdominal pain localized in the right that to 80ss. When seem by the author the patient was eachetic and suffer in from pulmonary tuberculors intermittent abdom and pain and localized tenderness at McHurney's point. The leaves with sumbered 25000. There was no fever Operation in called a perf action at the base of the manual was tuberculous leason a so noted. The nation

died the night follo ing the operation

Cast 3. This case as that of a soman aged 2; cars who had fever and low abdominal pain lot two and one half months follo ing the birth of a child in the right that for a an extremely, hard tumor as palpated. The leucocytes numbered 9000 Operation revealed an inflammatory mass consisting of omentum the excum and the right tube and ovary. The appendix and the loops of the small intestine cont goous to the principal lesson were some hit samilarly involved. The patient was measured in the small intestine cont goous to the principal lesson were some hit samilarly mind cell. The tube ovary omenium and append were removed. The patient culous of the ovary subacute adapting its and a lymphoid reaction of the append is. In chadde one affe ted secondarily. Water C Begerry MD.

Ashby H T The Aft r Re ults of Abdominal Tuberculo is in Children B 1 M J 9 3

There are the or main types of abdominal tuber rule is in children (1) the plastic or cital targ form (2) th type in which the mesenteric nodes are enlarged and palp ble (3) the ascitic type. These types are usually associated but the characterist 's

of one predominate

The symptoms which are often insidious in char

acter include loss of weight aniemia and enlarge ment of the bdomen. In some cases the onset is of the acute betructive type and n it to instussu. egotion this is the most common cause of intestin l obstruction in children. The disease is most frequent at the age of 3 years.

While infection with the bovine b cilius through the danking of the milk fir m infected cows is kno n to occur the ha e been many cases in children who never had any b t bouled milk. In J pan cows milk i ne ergi en to hildre but abdominal tuber culosis is very common. Moreo er the condition is found among the poor in large cities who do not use much milk and is infrequent among the better classes

As in all of the author's cases enlarged bronchial glands were found he is of the opinion that the bronchial infection was primary and the abdominal

condition secondary The prognosis is poor during the first and second years of life but improves as the age of the child increases If ascites is present the condition is usually greatly improved by laparotomy. In a large percentage of the cases there are no important after affects No patient should be considered cured until he has been free from symptoms for a period of two WILLIAM J PICKETT M D years

GASTRO INTESTINAL TRACT

A Study of 1 000 Consecutive Cases Willson H S Presenting Gastro Intestinal Symptoms J Lancet 1021 litt 512

On the basis of a review of 1 000 cases with gastro intestinal symptoms the author comes to the follow ing conclusions

I Although the history and findings may be obscure a very high percentage of persons with gastro intestinal symptoms are suffering from most commonly known ailments

2 So called peurasthenics should be carefully studied as usually there is an organic reason for their trouble

3 Chron c gall bladder and append ceal con ditions are more frequently the cause of indigestion or dyspensia than are organic diseases of the stomach or duodenum

4 Chronic cholecystit's with hepatitis is frequent in young adults

5 Duodenal ulcer is the most frequent direct

organic disease of the stomach and duodenum and is often difficult to differentiate from disease of the gail bladder 6 Gastro intestinal symptoms are caused re

flexly by numerous diseases 7 A careful history and physical examinat on are of pr mary importance for a correct diagnosis

MARCUS H HOBART M D

Payne W W and Poulton E P Visceral Ps n In the Upp r Alimentary Tract Q at J Med

In a study to determine the cause of pain in the upper abdomen the authors used a p ocedure sug gested by Carl on and Hurst namely the intro duction of a bag or balloon into the viscus and the recording of the pres are readings. They employed the water system instead of air b lieving it to be more accurate. The apparatus consisted of a bag rubber tubing a manometer and a syringe so ad justed that the contents of the system could be con tained in the syringe at a certain pressure and level in the manome er After the bag had been accurate ly placed under fluorscopic control it was filled with

water from the syringe and the pressure readings were made from the manometer. The esophagus stomach duodenum and jejunum were studied in this manner

The observations on the esophagus revealed a more or less constant pressure in different locations Esophageal peristalsi was noted and its time and rate were recorded Burning sensations in the epi gastrium were associated with an increase in the pressure in the lower æsophagus. In the authors opinion epigastric pain is due to tonic contractions in the lower part of the assophagus. A number of clinical cases are reported with pressure tracings to illustrate these points. It was noted that with the pain there is an increase in the pressure the degree of pain being often in direct ratio to the rise in pres sure in the water system

The observations made on the stomach were similar. It was noted that with the generation of carbon dioxide gas there was a marked rise in the pressure associated with distress, but with eructation the pressure immediately dropped and the

distress disappeared

In a case of duodenal ulcer associated with pain there a as a marked rise in the pressure. Following eructation the pain was relieved and the pressure decreased

Observations on the pressure and contractions of the duodenum and jejunum vere less conclusive The authors summarize the article briefly as fol-

lows Measurements were made of the pres ure produced by peristaltic waves in the human ceso phagus and their rate of progression

2 There is evidence that an ocsophageal peri stalue wave ends by causing the cardia to contract and that during this process the cardia descends and probably invaginates uself into the stomach

The gastro-resophageal anti regurgitation reflex has been substantiated in man

Esophageal pain or heart burn

felt beneath the sternum or in the epigastric angle is usually associated with peri taltic movements of the esophagus and often with a rise in the pressure

5 In one case anginal pain was not a sociated with resophageal movements and in another was abol shed after air was sucked into the stomach

This is contrary to Verdon's hypothesis

6 During normal function the pres ure in the stomach measures at the level of the liquid between 5 and 11 cm of 1 ater In gastroptosis the pres ure is higher in the upper part of the stomach than in the lover part in one case this difference was abol ished when a belt v as worn

Pain felt in the upper abdomen may be asso ciated with movements in the pyloric part of the stomach the duodenum or the jejunum. There is evidence that these parts may be affected alone or simultaneously and that there may or may not be simultaneous movements in the resophagus causing heart burn

8 There is some evidence that visceral pain may be produced during relaxation of the muscular walls of the viscus

9 Just before eructation the pressure in the stomach may equal 30 cm of water

JOHN A WOLFER M D

Heidenhain L and Gruber G B Congenital Pyloric St nos sin Adults A Study of the Relationship Between Gastric Diseases in Adults and Cong intial Anom 1es (U be k g n tale Pyl ru tenose b E wachs e E te Stude u b Z smm h ge von M ge er kr k ngen Erw ch m tang born Zustan d) Du h & Z h f C 23 kstr 330

Hetdenhain has come to the conclusion that polione stenois of congenial origin is not uncommon adults. He reports see ne cases in which the climical pricture suggested pylone stenois but at autopsy only hypertrophy of the pylone musculatue with or without ulceration and erospon of the gastine wall may be overcome by compensatory hypertrophy of the gastine musculature and of med symptoms deep only when compensation is interrupted or pylone sparam occur? Climically the disease picture cannot be differentiated from that of ulcer of the stomach turns four disnut luters four day fullers may develop secondarily.

Heidenhain believes that the hypertrophic spastic stenosis of the pylorus in infants the congenital pyloric stenosis of adults and gastric ulcer belong to a similar complex in which the constitutional neurotic compon nt is distinctly foremost. For every case of pyloric stenosis he advises resection of the pyloric ring by the Billroth I method In cong nital pyloric stenosis gastro-entero tomy does not le d to certain and last no reli f. In some cases e clus on of the pylorus with gastro enterostomy seems to cau e i itation which induces hyper perist I is and gastric pain. In one of to 0 c ses operated upon by H id nhain in hich Gruber m de a c reful a d anatomical and histologic lev amin t on and muscle measurements h discovered an abnormal muscle mass and n the other an bnormal mass of mucous m mbrane These he showed were independent of the associated ulc rs After a study [b th form of pylone steno s-the Maier Lander type in which there s narrowing of the mu ous m mbrane canal due to a de el pment 1 d turbance and the Hirschsprung type in which over development of the muscul ture of the subjecter stand in the foreground-Gruber concluded th t in the first c se the cause was an idiopathic hypertrophy of the muscle. He believes that the so-called congenital hyp rtrophy of the pylorus is a c ndition which possibly as the result of compl ations of a functional natu e may seri ously endanger lif e en in the adult but admits that this assumpt on is based on purely hypothetical grounds and requ es confirmat on by fu ther V N REDWITZ (Z) observat ons

Bauer & H The Gast ic Channel (Ueber di Magenst ass) D to he med Websnehr 923 zlux 7 3

In cases in which Bauer fixed the still-contracted stomach in situ by means of formalin infusions injected through a stomach tube soon after death he found a distinct gastric strait eleven times. In other experiments he found that ulcers caused by a combination of cauterization submucous inject on of formalin and excision of mucous membran showed distinct differences in the r tendency to heal and that only the defect in the gastric strait devel \ oped into a typical ulcer. When the gastric strait was extirpated entirely the form and function of the stomach remained almost normal a passage of longitudinal folds appeared on the lesser curva ture and a new gastric strait was formed Roent genograms sho ed that the funct on of the gastric strait in the dog is exactly the same as that described by Retzius The passage of the bismuth along the lesser curvature could be easily followed

resser curvature could be easily followed
Bauer demonstrated embry ologically that the
oblique fibers which determine the presence of the
gastric channel are the remains of the muscular
mechanism of rumniation and that the gastric
strait represents the previous crosphagal trough
in the process of phylogenetic involution. The
nathology of the g sting strait includes not only

ulcer but also cardiospasm

The question of importance for the surgeon is whether it might not be possible to extirpate the entire gastric strait with the ulcer

NORDMA.~ (Z)

Du af P Roux J C nd Moutler F Septicity of the Gat ic W ils and the P rigastric Lym ph ties in Ce tain Cinconic Gastroduodenal Ulcers (D i spt if d p sg inqu's cd lymphit q's péngast q'e da a citan ul ères h niq gat d'odé) Bil i mém S c d h d P 9 3 h 750

During the year 1922 four of the authors patients in whom rescribtion of gastroducleant users as had been done by different methods died from local or general postoperative infection. In the first case in who death occurred on the fourth postoperat e day a subphrence abserts opened into the peritoner as a subphrence abserts opened into the peritoner and the contract of the contra

In the second case in which death occurred on the twelfth day from n crot c infect on of the lesser omentum the gastic sutures remaining ntart the histologic findings were very similar to those in the first case

In the third case death occurred on the fifteenth day from pseudo lobar bronchopneumonia and abscess of the right lun purulent pleurisy and streptococcal abscess of the thigh but the field of the gastire operat on was in good condition. His

tologically the callous ulcer showed acute inflamma tion and cultures from it yielded streptococci and diplobacilli

In the fourth case there was superacute infection and histologic examination showed acute inflamma tion of the septic jejunal ulcer with streptococci and star hylococci

The four cases therefore were sentic ulcers of the stomach and in each case the acute senticity caused

a local or general fatal infection

The authors conclude that the septicity of gastro duodenal ulcers-not the original septicity but that which may develop in the cour e of their evolutionis of great importance with regard to the treatment and the postoperative result. This subject has not received sufficient attention from surgeons as gastric ulcer is generally regarded as a trophic mixed lesion rather than a possible set tic ulceration. The sen ticity which is present in certain cases and due usually to the streptococcus may cause unfavorable operative results and d sunion of sutures Septicity of the perigastric tissues even when the gastric tis sues are aseptic explains perigastric abscesses developing about gastric sutures Septicity of the ulcer itself or of the pengastric tissues and dissem mation of the infection by the circulatory system following operative manipulations explain cases of postoperative septicamia in which the operative area remains in good condition

In the authors on mon this senticity is more fre quently the cause of failure in treatment than faults operative technique and explains an unexpected break in a long serie of cases similarly operated upon by the same surgeon with successful results II A BREV IN

Grekow J J R lati nships Between Gastric Ulcer and Appendicitis (he chu g n z s h n Ulcetiul uni Applit) I h di d R Ch Ang Ptrg d 93

The author has found that bron c appendicits with pain in the epigastrium is always associated with per gastriti periduodenitis and spism and hypertrophy of the pylorus conditions which are of ch ef importance in the pathogenesi of the round The incidence of the association of gastric ulce appendicitis and gastric ulcer as given by numerous vinters ranges from 20 to 05 per cent. In 181 ca e of gastric ul er Grekow found only one case without macrosc pic changes in the append's In 100 cadavers hiselv of the pathologico anatomical institut of the Obuchov ho pital found appen diceal changes in thi ty four Of thirty cases of perigastritis or duod nitis t enty five showed dis tinct chan es in the appendix

The mechanism of the production of gastric ulcer by the appendix the author sees chiefly in a spasm of the ileocreal valve. He believes that between this valve the pylo us and the cardia there must b a relationsh p similar to th t between the anal sphincter and the urethra Spasm of the ileocæcal valve cau es pyloro pasm and later this may lead

to de turbances of gastric function favoring ulcera tion

When internal therapy fail in cases of gastric ulcer the author prefers conservative operations such as gastro enterostomy with pyloric exclusion pyloroplasty and excision of the pyloru Removal of the diseased appendix is all o desirable

SCHACK (/)

Further Experiences with Peptic Finhorn M Ilicers Accompanied by D formities of the Viscus Visible by \ Rays \ Vork W J & M d Acc 1923 CY 111 612

Brief reference is made to six cases previously re ported by the author in which far advanced peptie ulcer with niche formation was apparently cur d by medical treatment as indicated by the clinical findings and the d suppearance of the niche The subsequent history of the five patient who have been traced indicates that they have remained cured to date

As there I still doubt in the minds of many re garding the efficacy of me lical treatment in advanced peptic ulcer further proof 1 given in thi article by the report of thirteen additional cases five of eastric ulcer and eight of duod nal ulcer in which a cure w eff cted by duodenal alimentation Two of the e are report d in detail and the histories of the others ath regard to the symptoms physical signs findings of the string test and laboratory and roentgen findings are git in in tabular form. The article includes also tracings of roentgenograms made before and after treatment While the author onceds that surgical inter

vention may be indicated in certain case he i of the opinion that proper medical treatment will cau e healing in the g eat majority ADDITED HARTING MID

Flanski N I Malignant Degeneration of Gastric Ulcers (Ul r m | ga Dege er t n d r Ma en ge chwu r) V rh dl d R Chr Ko g letrog ad o 3

The author study d ranety eight ulcers res cted in Fed roff's clinic. The se tions examined very taken from d flerent portion of the edge and floor of the ulcer Crecinoma was found in six cases and atypical probleration of the epithel um in twenty These les ons had been diagnosed as ulcers both of nically and at operation SCHARCK (Z)

The Relation of Gast ic Ulcer to Car Morley J cinoma Lone 1 923 c 8 3

Morley claims that the theory that gastric ulcer vers commonly undergoes malignant degeneration ones much of its authority to the reports emanating from the Mayo Chme He quotes W J Mayo as stating in 100 that in 54 per cent of sixty nine cases of cancer of the stomach operated upon in 1905 by him elf and C II Mayo the clinical histories and pathologic examinations of removed specimens made it certain that the cancer had its origin in ulcer

Wilson and MacCarty in 1909 reported 109 (71 per cent) of a series of 133 proved cancers of the stomach arising on an ulcer basis MacCarty has observed that most chronic gastric ulcers larger than 2 cm in

diameter are malienant

Among British writers Sherren reports that fourteen (25 per cent) of a total of fifty seven cases in which gastrectomy as done for caneer showed definite microsopic evidence that the caneer began at the edge of a simple chronic ulcer. Moy mish astes that 18 per cent of his excessed chronic ulcers saless that 18 per cent of his excessed chronic ulcers with the contraction of the contraction

The author analyzes his or n series of 116 cases to determ ne the tendency of chronic gastric ulcer to give rise to cancer. He divides them into three

grouns as follows

Goon 1. Eify cases of chronic gastice ulcer removed by partial gastrectomy or earso on At operation all of these were regarded as cases of simple ulcer 'Microscop e examinations showed fire of the ulcers (to per cent) to be definitely mahignant Of the remaining forty fo as is showed irregularity of the glandular epithelium at the ulcer edge which would be regarded by some pathologists as a pre cancerous change or early malignancy. In Morley's op non the first early ind sputable evidence of malignancy is the transpression of glandular epithe cases were cases of simple chronic ulcer manignance.

Group 2 A small series of gastric ulcers in which the ulcer was left: s in and simple gastro enteros tomy was done. The average duration of the ulcer symptoms was 0 3 years. Two of the patients died from cruses other than malignancy. The remain ing ight are alve and well from one to ten years.

after the operation

Group 3. Fifty six cases of chincally pro ed can cer of the stomach with forty six operative dignoses. In fifty two cases there was no history of indigestion I efore the onset of the cancer and in only three was the ra a history's geesting uleer. However the history dep nds largely on the exam uning physician and the patience with which its elicited.

As demonstrain that cancer does not often are from uler Morley compares the average duration of the gastric symptoms in the two series of proved uler and cancer cases. In the proved cases of gastric cancer the average duration of symptoms was 27 months while in the fot is, five cases of simple uler it w s to 3 years. In Group 1 the average ago of onseit in the letter es sew say 38 years which in the cancer cases it was 40 years. Morely behavior that though the possible from the behavior that though the possible from the letter cannot be demed. In study indicates that this does not corn net it, as frequently as in generally behaved He oncludes thit it is the uler simulating cancer which his spossible for the bell of in the cancer out.

deg neration of s mple gastric ulters

John W Nuzum M D

Wolkoff K W The Surgical Treatment of Cas tric Ulcer 281 Cases (De chiru gische B h nd lung des Ulcus ventre h Sr F lle) Ve kand! d Ck R: Kong Pt grad 1923

This report is based upon operations performed during the years 1918 to 1922 at the District Hopital of Jadon in the Tachuwash region. The subjects were Violonamedians of a very low cultivality type Of 385 operations on the stomach 387 were done reaster culter and of these 236 (88 per cent) of 250 per cent of 250 per

There were four deaths a mortality of only 14 per cent Suppuration of the wound occurred in twenty nine ca es (10 per cent) and in four of these a hernia developed later Hæmatemesis occur ed in nuncteen cases (7 per cent) In five cases (1 8 per cent) there a as acute postoperative dilatation of the stomach. This was relieved by gastric lavage and elevation of the foot of the bed. In s x cases (2 I per cent) postoperative pneumonia d veloped. Eight patients were operated upon a second time five for stenosis of the stoma and thee for vicious circle the latter condition was relieved by the ente o anastomosis of Braun. One patient who was ope rated upon a third time for stenos s and adhes ons died of peritonitis Recurrences developed in 12 3 per cent of the cases

The number of cases operated upon annually has increased from year to year nd in 1921 1922 was three times that of 1918 SCHARK (2)

Schnack W and A rnew P G Ulcer of the Stem ch and Duodenum and Their Operate Treatment Acc rding t the Rep rt of the Surg catt Faculty Cilnic of the Medical Institute of P trograd (D s Ul u tr cult et olden to d rn pt B h dl r and h d n tg bh d h rn pt B h dl r h h d n tg bh d h rn pt B h dl r s h h d n tg bh d h r pt Pt B h dl r s h d n d R C h Acc Pet 2 4d 30 3 3 8 6 6 6

The authors report on 127 cases of gastric ult? and twenty five cases of d odenal ulere Gastroenterostomy was done in 129 res ction in sutten and a g stroylast coperation in one. In the 136 cases there were this case deaths a mortal by of gastroe encorrotomy was 69 per c nt. This high death rate was due partly to the fact that many of he patients were in an tremply poor conduction and partly to the fact that present conditions in Genany a every unfave all for convisioners from gastroe operations. The immer has considered in the control of the convision of the control of

Most of the patients were between 30 and 50 years of age and 18 of them were males. The ulcer was on the leser curvature in fifty two cases at the pylorus in thirty is ven near the pylorus in tenand in the duodenum in the nty five. In five cases no ulcer was found. Forty eight cases showed

numerous adhesions fifteen a penetrating ulcer and four an hour glass constriction. Multiple ulcers were found in five cases and four of these were fatal.

In susten cases there were decided changes in the appendix and an appendectomy was performed in addition to the gastro enterostomy. In ninety mine cases simple gastro-enterostomy was performed and in thirty gastro-enterostomy with exclusion of the pylorus. A comparison of the permanent results revealed no particular advantage to be gained from

exclusion of the pylorus

The authors believe that gastro entero tomy it to be preferred to resection because of the higher immediate mortality following resection because the etiology of gastric and duodenal uters is still unknown and because resection is not a dependable preventive of recurrente and severe complications. They always perform a resection however if there are possible the physiological Billroth I method is employed.

The roentgen ray examination is of aid in the diagnos s but in 27 per cent of the authors cases the findings at operation did not correspond with the results of the roenteen examination

SCHAACK (Z)

Horsey J S The Choice of Operation for Gastric and Duodenal Ulcers with Especial Rele ence to Pyloroplasty J Am M Ass 933 km 9 In experiments on sixteen dogs recently reported by Mann and Williamson the duodenum was severed from the stomach and the end was closed. The nature was then cell flower deeps and the

by Mann and Williamson the duodenum was severed from the stomach and the end was closed The jejunum was then cut off lower down and its d stal end sutured to the pyloric end of the stomach while its proximal end was sutured end to side to the The operations were performed with the greatest care no clamps were used bleeding was carefully controlled and No oo chromic cateut was employed for suturing At necropsy ulcers of the subacute or chronic type which were similar in all respects to peptic ulcer in man were found in fourteen of the sixteen dogs. The site of ulceration was usual ly in the intestine a short distance from the anasto mosis of the stomach to the bowel. These experi ments were d vised to divert the alkaline secretions which neutralize the acid stomach contents to a portion of the intestine at a distance from the point of emergence of the acid

I rom these findings it is obvious that all operations which d ert the protective alkaline contents of the duodenum from the jejunal mucosa are undesirable

According to Dan approximately 8 per cent of gastro-enterostomes are follo ed by gastro-gunal ulcer Gastro-enterostomy is efficient only when gross mechanical ob truction is present at the pylorus. It should never be performed in the absence of pylo is disease.

There are many operations for the treatment of ulcer of the stomach or duodenum but the choice of

procedure must be made on the basis of the par icular case. The acute utders heal under medical treatment. When pilone ob truction is present a gast menterotomy will cure in practically every case. The Polya operation is a distinct advance in a static surgery. Foo of infection must receive proper attention. The patient should be given careful instructions are of datafate the operation.

Horsley first described his pyloroplasty four years ago. It is indicated (1) in cases of small ulcers of the pylorus or doudenium without inflam matory exudate (2) after the local excision of a peptic ulcer in the body of the stomach and (3) in cases of narrow pyloric stenosis. It is contri in

dicated by extensive adhesions

To date the author has performed fifty sax p) toroplasties with three death. Thirty two pa tients are complaint free Fourteen vere greatly benefited Five required another operation. A sysual ulcer following pylorectomy is unknown. The essentials for successful end results after py lorectomy are the elimination of for of infection proper selection of cases for the operation and proper postoperative medical and surgical care goals.

Deaver J B Gastro Enterostomy Si g Gy
Obst 1023 xxx 144

Anterior gastro enterostomy is today done very seldom in fact the only reason for attempting it is when because of existing die case the posterior method is impossible. The chief objection to anterior gastro enterostomy as it is usually performed is the presence of a long loop of jeptium. Ant in our performed in the properties of the long loop becomes nater logged because of its imbully to drive its contents forward.

The motor and secretory functions of the stomach show marked changes following gastroe enterstomy. The occurrence of physical alkalimization is shown by the constant presence of bile in the gastric contents after the formation of the new stoma. The total gastric acidity is lowered about thirty points, and the

stomach empties more rapidly than normally Except for cases of very small ulcers which can be exc: ed without altering the normal motor function excision plus a gastro enterostomy is the procedure accepted by the majority of surgeons. It is best to remove the ulcer with the surrounding indurated wall since an early carcinomatous ulcer is indis tinguishable from a chronic callous ulcer. After gastro-enterostomy alone a peptic ulcer may per forate A definite percentage of marginal ulcers fol lowing gastro enterostomy are due to a lack of thor oughness in dealing with the initial lesion which re mains as a focus of infection. In cases of small duodenal ulcers the author excises the lesion or de stroys it with the cautery and performs a gastro enterostomy Cases of large duodenal ulcers h treats by pylorectomy including the points of in filtration and posterior gastro enterostomy

Gastro-enterostomy alone is indicated by

with retent n

I Cicatricial obstruction of the pylorus and ex tensive benign ulcerative disease of the pylonic end of the stomach when the patient a condition will not s arrant a more extensive operation

2 Large ulcers invol ing much of the lesser curv ature or the po ter o all of the stomach and asso ciated vith adhesions to the liver or pancreas

3. Ulcer of the cardiac end of the stomach not amenable to excision or destruction by the cautery 4 Ga tric or d od nal ulcer with recurrent hæm

orrhage which f bid removal of the picer 5 I vloric obstruction due to postoperative adhe

s on 6 Hour glass stomach in which the constriction

is close to the pylorus 7 Extreme chronic gastric dilatat on occurring in the absence of a patulous pylorus and as ociated

In cases of perforated ulcer excision of the ulcer followed by gastro enterostomy is indicated as per foration does not always effect a cure and we can not be sure of the absence of latent carcinoma in th margins of the crater. The best results from gastro enterostomy are expected in cicatricial pylo ic steno and int use pyloro prem I allures may be due to neglect in removing primary foci of infect on such as a d sc sed gall bladder or app ndix a stoma ron ly placed an obst uction of one of the jejunal limb a kink or a spur or a stoma which is too small

The coor eration of the internist with the surgeon is necessary following operation as too frequently a good surgical result has been f fited because of di tette indiscreti as of neel cted nationts

CARL D NEIDHOLD M D

Clare T C G at omyotomy An Operation fo the Cure of Chro ilc Ulcer of the Stomach f 073 C 6

On the assumption that the ch onicity of ulcer is due to contraction of the ci cular muscle fibers and the motility of the stomach the a thir his devised an operation to cut the circular muscle fibers leading to the ulc r thereby placing the ulcer a ea at rest He calls this operation gastromy otomy technique is as foll wa

I curved inci ion ab ut 4 in long with its con vexity downy a dis mad just bel the ulcer well away from the ulcer induration. It is fi st ca through the serous co t which is sep rated from the muscular I yer for about 4 in Then the muscular I ve is dis ded fown to the mucous faver and care fully s p rated to prevent inju y to the muc s and leakage Finally the sc o coat sutured the iges being inverted into the muscular defect

In the author's opinion the benefits deri ed from g st o t ostomy are due to the d vision of the cir lar muscle fibers ther than to drainage or alkalin zation of the g stric contents. For this reason in

cases of pylo ulcer h cuts the pylo ic ring Cl re h s performed h op r t on in nine cases within the past e ght months While the time is st ll too short to warrant conclusions as to the final results he states that practically all of the nationte were relieved of their symptoms immediately and have remained symptom free

TORN A. WOLFER M.D.

Hesse E Gastric Res ction for Ulcer (De Resek des M gen. b m Ulcu) } h ndl R 1 Chr Kng I togr 1 1023

In Hesse's hospital during a period of two and one half years there vere 158 operations for gastric and duodenal ulcer 116 of which were gastro enterostomies and forty two resections. In this article only the resections a e discussed Thirty six ere resections of the stomach and six resections of the duodenum In sixteen cases of wedge re ection there were two deaths in two cases of circular resection. I the fundus of the stomach there were no deaths in fifteen cases of resection by the B liroth II method there were two deaths and in nine cases I resection by the Billroth I method there was a e death. The Causes of death vere peritonitis two cales post on rative shock two cases pneumon a one case In the total number of forty two cases the mortal ty

as therefore 11 o per cent The mortal ty of gastro-enterostomy was forme ly 118 per cent but a ace the use of local angesthesia

it has been reduced to 3 per cent

One objection raised to rejection i its hi her mortality as compared with that of g stro enter s tomy Hesse like Federoff has f und the differe ce slight Among the ad ntages of resection is that it p events severe complications such as hamorrhage perf ration of the ulcer and mal gnant degeneratio It chief advantage how ver is that it gi es c n siderably better lasting results. A rec rrence de velops in not less than 50 per cent of cases tre ted by gastro-enterostomy (Clairmont 52 per cent Moyn han and Mayo 50 per cent) but occurs at the most in only f om 5 to 10 per cent of those treated by resect on Aft rrs ction the danger of peptic jejunal ulcer is less than after gastro-erter ostomy and after a Billroth I ope at on it is entirely alise t

Wedge resect on the ut gastro-enterostomy is to be condemned. Cross res ction of the stom h has the disad antage that it does not rem e the pyl rus e asequently resect on by the Billroth m thods 1 to be pref ed especially the Billr th I method

Resection is ont a indic ted a cases of high ul ers of the c rd and tho e of very weak p tients in poor g neral cond to n as a e most of th e comi g to operation in Ru 12 today Sc 1 K (Z)

Resection of the St mach fo Lewi ohn R ol ohn R Resection of the St mach Ch nic G tric and Duodenal Ulcer

S . 93 L 11 5

Simple g st o enter stomy which up to a few rs ago was consid ted the best ope ti e pr cedure in gastric ad duod nal ulcers d es not gi e id al pe m ent r ults In many e ses the condi

tion is note folloning this treatment than it was previously Resection plus gastro enterestomy seems to offer a more favorable outlook than gastro enter sotomy with or without p ploric exclusion. Radical resection of all pylone or duodenal ulcers with removal of the antium teads to prevent later complications such as harmorrhage perforation and many and degeneration and removes the acid producing part of the stompton of the st

Resection of the stomach may be performed by abiliorth 10 religional to Hulberth II technique depending upon the exigences of the case. The Billroth 1 is the more ideal procedure as it tends to stablish normal relationships. Haberer's modification of this technique as followed by Leuvison in selectived in detail Adhesions to the pancreas can be easily deall with the leaves of the pancreas can be easily deall with the latter can be repaired inferent of II the Billroth II technique is used a posterior suture or a Murphy button may be employed.

In ten of a series of twelve cases the Billroth II method was used and in two the Billroth I technique. Ten patients are perfectly well one has developed stenosi of the stoma following a button gastro entero tomy and one dued from peritonitis. The acid values averaged 27 free and 50 total before

operation and 5 4 free and 28 total afterward
M. L. Masov M.D.

The operation for gastric ulcer constitutes only one stage in the treatment of the dicase as the dictric after treatment is of the greatest importance. There are 1 o stages in the after the trent in the first which includes the first fourteen day following the operation fluid diet should be given and in the second which includes the succeeding six weeks a strict ulcer die nichudes the succeeding six weeks.

The author d scusses the chemical and motor changes in the stomach following gastro enteros tomy with or without exclusion of the pylorus resection according to the Billroth I or II methods and t answerseries to in

The art cle is supplemented by a number of d et t Kalb (Z)

After a review of the hierature on intestinal distu bances following abdominal and gistric operations the author discusses the relationship between

gastric anacidity hyperacidity and motibity and the intestine particularly the large intestine and the influence of these factors upon the bacterial flora of the colon and the nervous and internal secretory processes

Of 602 patients subjected to gastro enterostomy resection or an exploratory laparotomy for gastric ulcer or carcinoma thirty four had postorerative diarrhera. The incidence of diarrhera was the same in the cases of carcinoma and ulcer but was greater folloving transverse resection (12 per cent) than following other gastric operations (5 per cent) The thirty four cases which included seven with disentery like bloody stools and twenty seven with intestinal dyspensia without bleeding are reported in detail. In some of the seven cases of disenteric colitis the mucosanguinous diarrhora came on immediately after the operation and in others after a few days in three it was fatal Lehmann at tributes the condition in four cases to infection of the intestine by the colon bacillus due to lack of normal resistance Diphtheria like ulcers were formed In three cases (without fatalities) true bacıllary dysentery was present

Of the twents seven patients in the second groups steded. In the to cases which came to autops; no intestinal lesions were found. The cause of death was debulty and complications such as internal harmorrhage thrombosi of the fluid vente pulmonary gaugrene and parulent pertinoits. Seven patients who recovered showed complications in the lungs and pleura or conditions interfering with the healing of the wound (abscesses of the abdominal wall) bursting of the sutures perioneal irritation or bursting of the sutures perioneal irritation are considered in the complication and disappeared with recovery from it.

In the remaining 11st cases the complications which presumably were the cause of the darrhora in the others were entirely absent. In the majority, the darrhora came on between the seventh and ninth days caused from three to six evacuations a day and listed for from four to six days. In some cases it may have been caused by the war bread consumed at that time. In the others it was probably due to the alteration in the gastric mothlity caused by the operation.

The diarrheras may be divided into (1) the endogenous those due to uritation of the gastro-entogenous those due to uritation of the gastro-intestinal tract resulting from dietary errors de componium of spepula area of the evogenous those due to absesses peritonitis etc. In the diag due to absesses peritonitis etc. In the diag due to absesses peritonitis etc. In the diag control of the evogenous those the diagrams and the diagrams of the evolution of the statement of the diagrams of the evolution of the statement of the diagrams of the d

In cases of postoperative non specific bloody column the prognosi is very unfavorable. When this develops immediately after the operation the mortal ty is nearly 100 per cent but when it develops.

after five or six days the outlook is better. In Goettingen the mortality in cases of functional

intestinal dyspepsia was 17 5 per cent

In the treatment of these diarrhoras the well known procedures of internal medicine in the form of medication intestinal irrigations and dietetic treatment are indicated Lehmann emphasizes the importance of prophylaris that is the proper preparation of the patient for a gastric operation Care ful control of the diet after operation is of special importance in the cases of patients with a pre operative tendency to diarrheea. In this connection von Noorden's dietary directions are quoted

In conclusion the author discusses the cases in which a loop of intest ne too low do in has been used in performing the gastro-enterostomy order to avoid such a mistake the plica duodenosesunalis must be exposed since the proper loop of gut lies retroperatoneal to it When possible a second gastro enterostomy should be performed at the proper site MARREDEL (Z)

Datt N M Anomalies of Intestinal Rotation Their Embryology and Surgical Aspects With a Report of Five Cases B & J 5 1 9 3

The author precedes his discuss on of anomalies of rotation by a description of the stages of normal rotation

Rotation in the first stage is never interfered with except in extroversion of the cloaca. When the cloacal membrane ruptures the development of all structures formed from the primitive duct caudal to the vitello-intestinal duct is disturbed and rota tion cannot occur

In most of the cases of anomalies of rotation the interference occurred in the second stage

may be grouped as follows

Group 1 Non rotation of the midgut loop The ejunum and ileum occupy the right hypochondriac lumbar and that regions The ileum may termi nate in a left iliac cacum or in a midline pel uc cacum The colon is on the left s de of the abdomen. There is gre t v iation in the secondary fi a tion usually it is imperfect particularly about the duodenum mesentery execum and ascending rolon

Group 2 Reversed rotation of the midgut loop This condition is rare A clockwise rotation through oo degrees causes the transverse colon to cros behind the mesenteric artery close to its origin and the duodenum to cross the vessel anteriorly Except for these anomal es the intestines occupy their proper position with reversal of the ante for and posterior surfaces

Malrotat on of the midgut loop. All such cases are d pend at upon the exact tim ng f the return of the viscera from the base of the cord to the abdomen Often a small intestine passes in front of the vessels. Ag in the cecum may pass in front of the origin of the artery where it stops the mesentery is then short and only partially

adherent to the abdominal wall. Again the small intestine may remain entirely to the right of the artery

Abnormal attachment and fixation due to anoma les of rotation in the second stage may c use no disturbance of function Undue fixation may cause interference with motility kinks or compression of the bo el Lack of fixation may cause pios s tor sion or volvulus. The incidence of such anomal es is three times as great in the male as in the female As a rule the symptoms occur shortly after birth Volvulus in the first few days of life is usually very extensive in later life it usually occurs at the ileocæcal segment

In the third stage of rotation unduly early fixation of the execum or failure of colonic clong tion causes subbenatic and right lumbar positions Deficient fixation results in the pelvic excum or the mobile

proximal colon

The author reports three cases of volvulus due to anomalies of intestinal rotation viz (1) reversed rotation and volvulus of the ileocarcal segment in an old man (2) non rotation and sol rilus of the entire midgut section in a newborn child (3) malrotation and volvulus of the entire small intestine in a new born child He reports al o two similar cases i om the literature and reviews the surgical pathology of extensive volvulus in infants

The diagnosis of the anomalies of intestinal rota tion is discussed from the standpoints of the abnor mally situated appendix diagnosis at operation and diagnosis in the presence of a lesion due to the

anomaly

Retrocolic and subhepatic appendic tis must be differentiated from biliary and renal conditions duodenal ul er left sided appendicitis (especially in the young) salp agitis on the left side diverticultis of the sigmoid and inflammatory compl cations due to a neoplasm A d stinctive colonic percuss on note heard over the greater part of the left side of the abdomen but not on the right side may denote Complete transpos tion of non totation (Mayo) the viscera is easily excluded by exam nation of the liver The \ ray examination will sometimes be found of a d

At operation it is important that abnormal dispositions should be recognized at whatever point the

abdomen has been opened.

W th regard to the diagnosis in the presence of a lesion consequent on the anomals such as abnormal adhesions kinks and volvidus the author states that in infants the condition must be differentiated from hypertrophic pyloric stenos the v rious forms of congenital atres a or stenosis of the intestines pressure of a mesenteric cyst a persistent Mecket dive ticulum or vitelline artery volvulus of a loaded portion of the ileum and intussu cept on

When intervention is necessary the details of operative procedure are dependent upon the anatom scal condit one present. For extens ve vol ulus in the newborn treatment by operative reduction ad PRILIP J MURPHY MD fixation is suggested

Eisen P Duodenal Regurgitation J Radiol 1923 iv 388

Duodenal regurgitation into the stomach al though referred to frequently in chincal literature appears to be comparatively rare from the roem agencial so the comparatively rare from the roem agency of the comparative when the author first own of duodenal under it occurred to him that it might be a contributing factor in gastner retention. Since then he has borne it in mund in the routine examination of the gastro intestinal tract in all types of cases and has looked for it sepecially at the three hour residue period or if the stomach was empty at the six hour period.

In a sense of 100 cases it was noted only nine times The conditions under which it was found were varied including divodenal obstruction pylone ulter gail stones and cases in which no organic lesion was demonstrable. The absence of regurgitation was especially noticeable in cases of diseased gall bladder in which from the patients complaints it is to be expected and clinications have considered and clinications have considered to the condition of the condition

From the author's observations it seems probable that clinical observations of regurgitation may often be based on faulty inferences or caused by the methods used in making the examination such as the usasing of the stomach or duodenal tube

In conclusion Eigen states that duedenal regulations although undoubledly occurring under normal conditions is nevertheless rarely observed by the roentgenologist and this discrepancy may throw some light on its clinical significance. Only in rare instances will it fully explain gastric retention and in most of these it is only a contributing factor associated with the delay in the openin of the pylorus and prolonged pyloric sysam or gastric atomy.

Another Hartingo Mitto atomy.

Kosyrew A Herniæ of the Intestinal Wall (Uebe D mw dru che) Verhandl d R: Ch Ko g Petrogr d 1923

During the last two years the author has operated upon twel e cases of hirma of the institutial wall. The majority were femoral herma and all of them were incarectated. Almost without exception the coil of intestinal vall were filled with solid faces. The conclusion drawn are as follows.

The incid nce of Richter's herma in Russ a is

 it op ration these hermæ are always found incarcerated
 Trequently bowel movement is not di turbed

but the does not warrant delay of operation

The hermal sac must be opened in the middle

between the tip and the const iction at this point adhesions are usually absent

5 Before the constricting ring is one sed the incarcerated wall of the intestine must be clamped

6 Following resection a lateral anastomosis is best Βυσεπ (Z)

Burgess A H The Treatment of Obstruction of the Colon Brit M J 1923 11 547

Acute intestinal obstruction due to a lesion in the colon was present in 28 48 per cent of all cases of acute obstruction admitted to the Manchester Royal Infirmaries in a period of ten years Exclud ing cases of hernia and intussusception malignant growth was the cause of obstruction in or o4 per cent The location of the malignant growth was in the left half of the colon in 86 7 per cent its site be ing in the order of frequency the rectum sigmoid colon splenic flexure cæcum transverse colon descending colon and ascending colon Therefore in any case of acute intestinal obstruction with the exception of hernia and intussusception there is a nine to one chance that the obstruction will be found in the colon and a six to one chance that it will be found in the left half of the colon

The prime consideration in the treatment of all cases is the general condition. In desperate risks when the site of the obstruction is unknown a

blind excostomy should be performed under local anaesthesia. A collapsed excum warrants bringing out the first dit tended loop of small bowel encoun tered. In more favorable risks a partametian exploratory incision may be made to determine the site of the obstruction its mobility and the presence of metastases. The operation should them be tended to the control of the control of

Weinstein S The Roentgen Dagnosis of So Called Chronic Appendicitis (Roentg ndagnos d s genannt n App nd cit s cho ca) Duts k m d Wch s h 1923 at v 757

The author rejects the technique proposed by Ehrlich 'hich cons ts in giving the patient an ordinary meal one and one half hours after the hannum meal and making a fluoroscopic estamination at hours later. His reason is that by this method the possibility of judging the emptying of the caramination gained to the passibility of judging the emptying of the caramination of the intestines as the residue in the learn has slight or no significant or residue in the learn has slight or no significant when the emptying of the stomach is related.

When a residue in the slewn is demonstrable after e pit hours with punctual emptying of the stomach a frequent cause of the stass is a tuberculous process in the reg on of the sleocccal valve. Simultaneous chronic intermittent pains in the sleo scal region which is the sight in es in the temperature often suggest chronic appendicties but frequently are an early symptom of a beginning tuberculous. In such cases appendictionly does not cure. HABLE 9

Faroy G and Baumann J: Manifestations of Inflammati n of th Transverse Colon (Lema lest i) n liques d la tra erc) Priemed I r 19 3 x 1 550

Descriptions of segmental coluisionly very rarely include the disturbing soams up in the transverse colon. Because of the complexity of the symptoms of coluisity. I if cultitod tinguich those which arise from mep it of the clin from those which arise in other term into

In the authors of non there is a littact cell; of the transverse of in its sport in sometimers by ing in the Viva picture an in all ea of form appear ance it which re-peculier to it and 1) in it come within the six peof the classical windows 1 and 1 has been been as the peof the classical windows 1 and 1 has been as a given in the last six most respectively. It is a given to the life and the six most respectively.

Colt appears to be the important factor in the general of stain types of intestinal stass. In the beginning it is accompanied only by the plenomena of excitation in little in or slight atomy but I fer if the inflammatory less in become market alterations of the utinomial nervous sist may war and inaugurate a period of firein must us.

Th auth is I can in I tail the sympto is lu to influi mation if the train erse col in and especially the roentgen scope findings. I light in under serie control reveals in tonly rigidity of the trains series I inductable jumful points. These ladgia companied I mala series on to the

Frequirmat star is sailing from the citin of them I resement of teed in instold musel fillure and progres is ed minution of tinisty. In this sit to configeroocy is sith method of object for easy mation a sit be takens the dualstip fait sin the thrain ersect) and lifed from I start (the other segment. The chiratin tic girs are 1 gaten and different north removement of the removal of the removement of the removal of the removal

In many case in lummats no of the treets coin nodes that same time as influential in a color segments as a variety and the segments as a variety and the left shown down and and not the shown down and and not the theory of the segment and the segment and

The general treatm nt sh ulile th a me as that of nurous colits. In the r i bl t pe due to adhesions r m mb anous n tr ting i nd sur gery is indicated. WA i r

Judd E S and Foold G S Adenomyom to In olving the Sigmoid S g G Ob I 923 x 648

Since January 1 1011 5070 p tient with fbromyoma of the ut rus haben perated on at the Mayo Clini During the san e period opera

tions have been performed on 491 patients with adecomyomats. Four hund of and asty four of these growths were in the uterus fallop at these oranges and uterus [agreen st fourten in the recto again septum ast in the abdominal will feel in the signoid three in the frush I region one for the said of the said

Adenomy mata of the same of like thos else he are are most come in between the ages of 23 and 45 years and in null parous women a dibose who his naid he are different for some time. If furteen coes nuts from the literature and for the time the Clinc in which the age was recorded it warred from the Clinc in which the age was recorded to the control of the district from the Clinc in which the age was recorded it.

A definite diagnosis is seld in mind before certs to n In rivost of the case however their was a historic of dull yalu in the lower at thome on the left sile which was as not ded with constipation and it is been present for two or three pars. The pan and the contripation were definitely in the rivost against the mention if periods Art here there de zera in was fit in partial and las some lists nees was associated with rectal pain. The was seld man also so the split Carberlas was not instructed obstruction, two partiests in the series and his closely in the last contribution of the parties of the carberlas was not described in the carberlas of the carberlas was not described in the carberlas obstruction two parties in the series had his colorator are before coming to the Cla-

A nomyona of the agree I is usually conf a d with cancer of the a mod. Helor the occur me of herworth get less of weight and of cheval it us I; uit to d it gut it if mently cherr the length of the corner of the divases secutoring a st malar in w. Sectiones diverted the sugmost resumbly these tumors but the firmer occurs the as often in the male as in the feine Ic. A typical toestigenogram ill male a definite diagnoss now the

The Itestment I a lenom mass surgeal is a other surge local tion of the sign il colon, a temperary c last my should be not first and an opper tinuty affiled the past in to recover from the betruction that my be present. Dring this period is the surgest and the period in the recovery claim of the period in the period in the recovery claim of the time remy then beed me. It is at a collection of the time remy then beed me. It is at a collection.

the r sult of such rescritions re sulth good.

All no years to come in the digmend a committed the sum of the

these tumors rarely show signs of malignancy on pathologic examination and should be distinguished from cancer by the regularity of the gland structure and the differentiation of the cells they have marked infiltrative characteristics. For this reason and because of their tendency to recur if they are not carefully transcode they are considered chincully malignant locally. They do not tend to metastasize

Rosser C Proctologic Peculiarities of the Negro

tm J S \$ 1923 x x 1 f5

Ro or reviews the ob ervations of Balloch Ma iss and Day with regard to pathological conditions in a sense peculiar to the negro—hbroid keloid elephaniasis arabum and urethral stricture—and attempts to correlate certain ano rectal peculiarities of the race with its known tendency to fibrous tissue hyperplasia.

To supply a pathological term for the racial tendencies in question which is broad enough to comprehend all manifestations to call attention to comprehend all manifestations to call attention to the element of racial hereful; and to describe a process in which the definite characteristic: growth to mesoldates the perplasia without direct involvement of surrounding tissues in response to injury he suggests the term fibripolastic disthesis

Thirty two cases of rectal stricture are reported and reference is made to hæmorrhoid ano vulvar elephantiasis and fibrous anal excrescences in the negro as illustration of the diathesis. The follow

ing conclusions are dray is

The inherent ethnic predisposition to develop adult connective tissue—in other words the fibroplastic d athesis of the race—is in evidence in ano rectal d case as in other conditions

2 The two proctolo ic manifestations peculiar to the African—fibrous external growths and fibrous internal strictures—are both a result of this ten

Bonnewitz O R von A New Operation for Ano Rectal F stula II h m M II II 923 1 1 645

The operation d scribed is used only in cases of simple non-complicated fitula

Mite the p its have been made aseptic the bowles thor ughls emptied and cleans of and the sphuncters dilated the fi tula is divided by a clean cut and the diseased tract is dissected out. The parts are then cleansed again and sutured as a clean wound with care to appro imate the edges smooth!

Afte dry ng of the ope attve field and amus the special splin is wrapped with gaze at funnel shaped end is inserted well into the rectum and it is miled on a until it engages the internal sphincter Gazue is their packed about the aims. When the two special splin is the special splin is special splin in the special splin is special splin in the special splin is special splin in the operative field is effectually scaled from contaminating sceretions even gases being excluded.

There will be no postoperative spasm of the sphincter or gas pain even if the bowels are not moved for ten days but an enema may be given after three days if necessary

This splint is applicable to any operation about the anus and if the field is aseptic before the introduction of the tube it will remain so

Two early failures were due to an unclean field be fore the introduction of the splint

Healing by first intention reduces the amount of scar tissue to the minimum and thereby lessens the danger of subsequent cancer

CARL R STEINER M D

LIVER GALL BLADDER PANCREAS AND SPLEEN

Chabrol E and Bénard H The Semeiological Value of Di sociated Icterus (La aleur sémé ol g qu des ictère d ouié) Bill et mêm S c méd d hôp de P 10 3 3 xxxx 60

In the case of a patient convalescing from si iro chartal icterus free from paund ce and with normal pigmentary cholamia the urne had a po title flav reaction for many weeks. Lemierre and Léve que consider this a case of dissociated retention at the expense of the bile salts.

The determination of a dissociated icterus at the expense of the bie salts is difficult. In the examination of 400 normal and pathological urines a decrea e in surface tension sufficiently definite to indicate bile salts never occurred without the presence of either unitary pigments or pigmentary cholemia. For the estimation of bilary, salts the authors prifer stalagmometry to the Has vecacion.

Stalagmometry has shown that hepatic di case so present in 00 per cent of cases with a surface tension below 850 that the liver is clinically diseased in 60 per cent of those in which the surface tension is between 850 and 900 and that hepatic involve is between 850 and 900 and that hepatic involve surface tension between 900 and 900 are the of those with a surface tension between 900 and 900 the presence when the surface ten ion is 850 or above the presence of bihary salls is to be presence.

According to Brule di sociated sterus depends on a di sociated impermeability of the liver cells and the mechanism of the numerous acteri due to retention acciding to the history of the pathogenesis of hepatitis. Besides a bepatic eminicipy is high allows the pigments and sailts to filter selectively the factors upon which discontait steries depends

1 The blood tis ue in thich the bile salts may undergo transformation

a The kidneys. In these organs the guernate and the salts do not have the same threshold of all fusibility. Bite salts have extreme small offusions by the guernate show a much higher concentration in the blood serum. Hence dissociated icterus at expense of the bite salts may not be disgnosed on the biass of an examination of the urine alone. Direct study of pigmentary cholemia is indespenable for

proof of bil rub n retention which the urine does

3 Bile pigment and salt formation

In contrast to Brul who holds that dissociated icterus is due to I ssociated hepatic retention the authors maintain that the disociation resides in the bile formation. Supporting this view are con liti as in obstructs a of the life passages from cancer of the panere s or ston in the common duct and r tention during citarrhal jauni ce In cancer of the p n reas the urine does not conta n the normal 8 to 10 gm of bile alts emitted by the common duct into the inte tine St lagmometry and Muel ler's reaction show only o gen f bile salts Hay's reaction is negative. The authors explain this by an entero h patic circulati n of the ble salts. The salts excreted by the common duct are alsorbed in the intestine and returned by the portal syst m to the liver white they are again climinated. When the bile alts are diserted toward a cutaneous fistul the general blood exculation or the unnethe reserves of the ore n m are rap dly depleted

Bile obtained I) surg cal drainage of the common duct is v r poor in saits. In catarbal jumdice at the hight of retention the urine contains abnormal bil pigments but the Hay reaction is doubt ful or neg it e. By m ans of the duodenal tube it has been found that the ble is very poor in bile saits as c myneric with its imment content.

The authors summarize their conclusions as

follows

Becaus of the great diffu ibl by of the asits ashine chol in a maint site before purentary chifurn; and the phenomen in is not explained by selectic a perm all hilly of the liver cells for bil ruli in. Dr. cotated icterus a the expense of the paments tends to appear in proporti in to the digree of referation. This set rules in on therease I by set citive.

tends to appear in proporti n to the d gree of retention. This set runs in oil interest it was elictive permeability of the 1's reall. I breat in the enteroil of control the firm in In Interus of herm lytic organ there is d soci tel 1'lie f manton with in crased production of pigments. In acteurs of herm lytic organ there is d soci tel 1'lie f manton with in a rased production of pigments. In retenus from hepatic or common duct retention the bile is list are import inshe! Thus does not require dissociated bil formation for its explanation. Therefore dissociated interior many not be consilied as evid needed of cattled retention in which it eliver cell is the only citiological factor.

T II rmann k II The Le ulose Te t fo Li er Ffficiency and an In estig tion of the Hepatic Condition in Pregn ney Q t J M d 923

The levulose test for liver effect cy is bised on the differences in the unne in normal and pathologic cal cases following the ord admin strution of 100 gm of 1 vulose. It depends upon the last that levulose is unable to cruse a ruse in the blood sugar such soccurs after a dose of gloro e because it is converted and store I more rapidly than glucose and

therefore does not appear in the circulation to the same extent

The author applies the test by administering from 30 to 50 gm oil 1 vilore according to the poin may be weight and them determining the blood sugar curve exceeds o 13 per c in 150 me degree oil in el indequous is pre sumed, and a high blood sugar vilor persisting at the end of from one and one half to two hours in

regarded as strong evilence of such disorder. In pathological cord tions of the liver the enzire or substance causing this conversion may be least active or so delayed in fit section that in tend of being tapidly converted into glicogen as as utility the case the levislose circulates in the blood and git still to the blood-sugar curve observed in path observal conditions of the liver or observed in path observal conditions of the liver.

The renal threshold for le valose is normally fur lower than that for glucose and can be pl ced at about a blood sugar value of o ra per cent. Si ceo a per cent blood sugar is normal an increase above this following the ingestion of levulose cau, es glycosina.

In normal pregnancy there is no evidence that the liver is in any way affected. The renal threshold is all sugars is lowere I in pregnancy and the threshold for levulose is practically non-existent.

A d turbance of liver function was found by the levulose test in one of two cases of eclampsia studied by the auth r Cyan, I Clasper MD

Specht O Furth r Investigations on the Effect of Varia U Drug in the Secrett in of Blief in D g with Fit tal (W invest tire be see the fit of t

A critical renew of the literature duched at the fact that man, remedies cilide chologogues are not chologogues and that in general no distinct on a made between drugs which merch increase the flow of the lateral properties of

r ports differ ma kedly In hi wn investigations the uthor attempted to d termine whether the bil secretion could be defi nitely increas d by means of doses not njurious to health An increase I flow of bile afre dy present in the bl ry pas ages w s ruled out by proper pre-cautions. The results d monstrated th t Carlsbad salts oil of peppermint Lieb g s meat extract and agar agar hal no effect on bile secretion and that sodium s i cyl te crused an increase only when it was go en in doses which in the d g were injurious On the other h d increased p oduct on of bile by the h er cells was cau ed by b le itself and by b le ac ds derived from other sources and in amous com binations th ir action depe d ng upon whether they we e administered by mouth or intravenously How ever e en these agents did ot always have the same

effect as their action was dependent also upon the type of animal Therefore the results of the author's investigations cannot be applied to man without

further study

Another fact established was that the secretion of bile and the exception of unnea are enturely independ entured in the exception of unnear are enturely independ entures in quantity specific gravity and sodium chloride content of the unnear eventuout influence on these factors in the bile. If was noted also that in the swine animal the percentage of sodium chloride in the bile was always about the same and was not altered by the administration of larger quantities of salt.

Husus (25)

Okinschewitsch A One Hundred and Six New Cases of Operation for Tropical Liver Abscesses in the Baku District 1918 1918 (En Ilundet u d sechs ne F lle vo Operat nen trop sche Leberabsee e im Bak sche R yon in dr Zet 19 0-19 8) Verh ndl d R 12 Cli Ko I Petrog d 1028.

In Transcurants live absenses are splitto pysem complication of repideme dysenter? Dysen tery was demonstrated in all of 22 cases in which autop y was performed and was indicated by the history in 67 per cent of the clinical cases. In Transcurants after between control of the clinical cases in the tof cases reviewed another dysentery was found in 170 per cent but in 87 per cent the telology was uncertain. Laver absenses are found most frequently of the control of the control of the control of the conditions is between the twentieth and filtreth years of age. Liver absenses occur throughout the year of age. Liver absenses occur throughout the years of age. Liver absenses occur throughout the years of age. Liver absenses occur throughout the years of age.

In chincally positive cases Abderhalden a test as not positive (seven examinations) Leutocs-to sis is alight or absent. On bacter ological examination of the pus from liver abscesses annobas were found in 17 opt cent its dooln bacillus in 15 1 per cent staphylococcus aureus in 1 per cent and the higa Aruse bac lists in 3 per cent. In 67 per cent.

the pus was sterile

Postmortem microscopic examination of the liver in cases of death from dysentery showed in many cases thrombos of the small vessels and peri va cular infiltrations and extravasations

The cause of liver abscesses is dysentery and its sequelar in the intestine. Of 124 bodies subjected to autopay 34, per cent sho ed multiple abscesses and 64 6 per cent showed solitary abscesses. Of the autopay of the control cases twenty four were cases of multiple abscesses.

Operation was followed by a cure in 58 4 per cent of the cases and by death in 41 6 per cent. In order to decrease the high mortality patients operated upon must be given pecific treatment with emetin or vaccine. Alcoholism seems to precispose to dysen tery. This fact explaining its high incidence among the Russians.

Gallart Mones F Pigmentary Cirrhosls (Con t ibution & létude de la cirthose pigmenta re) Presse méd Par 923 xxx 334

The author discusses cirrhosis associated with melanoderma and a pigmentary infiltration of all the viscera especially the liver In America this condition has been called hamochromatosi

It is claimed by many that the accompanying cirrhoss is of the hyp rtrophic type and that there is also a greater or less degree of hyperglycama with or without glycosuna. The author purpose is to show that there are certain types which are not hypertrophic not accompanied by either glycamia.

or glycosuma and not found in adults

A case reported was that of a 52 year old obese woman whose skin had been dark brown for several years and whose history was negative as regards syphilis and alcoholism Four months before the patient was seen by the author she noted yellowing of the sclera and a progressive increase in the size of her abdomen The bronzing of the skin was especially marked on the face breasts axillæ and genitals and on the backs of the hands Ascites was present and the liver and spleen were enlarged The border of the liver was hard and irregular The urine was deeply colored and showed traces of albumin and a positive reaction for urobilin and bile salts but no pigments and no sugar. The blood sugar was o 72 gm per 1 000 The blood showed a slight lymphocytosis and a prolonged coagulation time The Wassermann test was ne ative A Weber test for blood in the fæces was positive. A few days after the patient entered the hospital she had a severe nasal hæmorrhage. Addison's disease was eliminated on account of the absence of vascular hypotension gastro intestinal symptoms etc

The condition remained stationary for three months except for the increasing ascites which ultimately necessitated an abdominal paracentesis Death occurred as the result of internal harmorchage.

from a branch of the epigastric artery

At autopsy the abdomen was found filled with uncoagulated blood The liver was small globular irregular hard and full of reddish brown granula tions On section circular bands of sclerotic material were seen surrounding the hepatic islands. The biliary tract was unaffected Section revealed fatty degeneration and much new connective tissue formation All of the hepatic cells showed degenera tion. Histo-chemical examination for iron was negative (Tirman reaction) but chemical examina tion showed 6 418 gm of iron per 1 000 (normal o 15 gm) The spleen was enlarged and hard and shoved permascular sclerosis. The kidneys were normal. The pancreas showed areas of sclerosis and 1 18 gm of iron per 1 000 The suprarenals were nor mal iron 1 083 gm per 1 000 The heart exhibited fatty degeneration The lungs were normal The skin showed a large amount of pigment and many melaniferous cells in the dermi. This pigment gave negative histo chemical reactions for iron but chem scal analysis showed o 49 gm per 1 000 The findings indicated an atrophic cirrhosis with an excess of iron in the liver and other organs

According to you Recklinghausen hamosideren contains free iron while hæmofuchsin contains iron combined with protein. This hypothesis may explain why the tissues in this case contained hæmofuchsin or iron so closely combined with albuminoids that the reagents used could not isolate it. The ferrous pigmentation indicated only a disturbance of iron metabolism a function controlled not

xclusively by the liver but also by other organs The theory is advanced that pigmented cirrhosis a siderosis terminating a circhosis involving not only the liver but other organs as well

KELLOGG SPEED M D

Lobstein L A Report of a Surgically Treated Case of Hæm rrhage of the Gall Bladd r Which Endangered Life (En periett r Fall von I bensg f ehrh h r Bl t ng der G lie blase) Gyø g)4 1 923 286

This case which ended in recovery is the only non fatal cases reported in the literature patient a woman of years old was brought to the hospital in an afebrile state with the symptoms of ileus a pul e of 120 and very severe pain in the right hypo astrium. The probable diagnosis was volvulus of the excum and an adherent Meckel s diverticulum

Laparotomy revealed blood in the abdominal cavity which came from a longitudinal wound 15 cm long in an artery on the median surface of the gall bladder. The gall bladder was filled with five large angulated stones After removal of the stones the wound was sutured and drainage was established Recovery followed a biliary flow persisting for two

In the author's opinion the les on and hæmor rhage vere due to a decubitus ulcer Schnyder and Huguenin have reported similar

cases which were fatal VON LOBMAYER (Z) I nderlen The Indicat ons For and Procedu e in Gall Stone Operations (I dikat on u d tusfu h

ru d Gall nste p t) 47 l samml d des l h G ll h f Ch g 3 Early operation is opposed by most internists but is f vored by a constantly inc easing number of sur geons. While the indications for su gery are not so urge t as in appendicitis and if possible operatio should be avo ded during an attack long-continued

m dical treatme t f cholelithiasis is in general not ad usable

In the cases of young pat ents cholecystect my is the treatment of choice a d should be performed after the first attack In later life surgical treatment is indicated after the failure of conservative methods Larly oper t on is urged because in the early stages of the cond tion the pat ent has better resistance than later the disease is still limited to the gall bladder and has not set up extensive complicating changes the heat lu es and kidneys are still able

to stand the strain and healing progresses under good condition

Hydrops of the gall bladder presents a post me indication for surgical intervention and chronic cholecystitis and obstruction of the gall blidler are urgent indications since the benign picture may ou ckly change Internal treatment for scterus should not be con

tinued longer than two weeks. The only contra indication to operation is a poor general conditi n The urine should be examined for urobilin and uro bilinogen

In c ses of long st riding acterus special precau tions are necessary because of the danger of thol æmic hæmorrhage. In the prevention of such hæmorrhage the administration of calcium by mo th and of gelatin is indicated blood transfusion has proved especially valuable The author has aban doned roentgen treatment as a prophylactic measure

Most of the operations are carried out under anæsthesia begun vith ethyl chloride but main tained with ether. In one case splanchnic anasthe sia and in several others lumbar anæsthesia was induced. As a rule a median incision is made with or without division of the rectus muscle. The gall bladder itself must be releas d from its subserous position the cystic duct carefully isolated and divid d between clamps a d the cystic artery ligated. The ligature may be led out through a drainage tube In ca e of injury to the liver om atal tamponade is indicated. The author does not approve of closure without drainage believing th even too much dramage is better than none. He removes the drain on the sixth day Adhesions are formed whether drain ge is established or not

With egard to the choice of operation the author states that cystostomy is only an emergency proce dure It does not guard sufficiently against fistulæ and recurrences but is often of val e when the anatomical relations are difficult and the patient's strength is greatly reduced. The operation of choice is cholecystectomy Following this operati amount of panc eat c juice a d bile secreted is slightly diminished but this does not cause any harm The gastric disturbances are generally phenomena assoc ated with the ch lecy tit's and are not relieved by the operation

Choledochotomy is indicated when a diagnosis of occlusion of the common duct by stone s made and when concretions are discovered during cholecy stectomy In no case should operation be delayed long r than three weeks for the spontaneous dis charge of the stone. The opening should be made if possible from the supraduoden I portion in diffi cult presentations from the cost c duct Pap llary stones should be mob lized after mobilization of the duodenum T ansduodenal choledochotomy is d visable only in cases of incarcerated papillary stones. as it is an operation with a high mortality Drai ge of the hepatic du t is a procedure no l ger regarded as of value If the papilla is easily penetrated or has been previously distended, and if the bile is fluid the

bile passages can be closed without resulting harm If the walls are necrotic and the contents ichorous and granular drainage is indicated Choledocho duodenostomy i superfluous if the common duct is clear of obstruction but may be performed if there are stenoses in the lower portion of the papilla. How ever it gives no more protection against recurrence than drainage of the hepatic duct

In the after care hydrotherapeutics may be of STETTINER (Z)

Zweifel E St mulative Roentgen Irradiation of the Spleen (Zur Frage d r Milzre best ahlu g) If ch n m d li hns hr 923 lxx 67

The author recommends roentgen irradiation of the spleen in cases of menorrhagia in young women with normal genitalia Cases of chlorosis and general weakness appear particularly suitable for this treat ment Of twenty one patients examined after such irradiation eleven are regarded as cured

Zweifel believes that roentgen treatment of the spleen might be of value also in the treatment of older women as a preliminary to more radical WILLE (G)

treatment

MISCELLANEOUS

P dobedowa N W Abdominal Contusions and Subcutaneous Injuries of the Viscera (2u Fage dr B hohous ne u d subcutan a ver let u g de E gewede) F si hr z 50 ja hr g 4mij b lg m p V i haj z i u 3 z u 33 Abdominal Contusions and

In the Obuchow Hospital during the period from 1013 to 1020 there were 138 cases of abdominal cart sions. In eighty three there were associated injuries of the abdominal organs. The internal in surses included rupture of the intestine in twenty seven cases (33 per cent) of the liver in twelve (14 8 per cent) of the spleen in six (7 4 per ent) of the k dneys in e ghteen (22 2 per cent) of the blad der in nine (11 1 per cent) of the gall bladder in one (r per cent) of the pancreas in one (1 2 per cent) and of several organs in nine (108 per cent)

Of the twenty seven patients with intest nal min t venty fi e were operated upon six were cured Both of the cases not operated upon were fatal A cure was obtained in three of the six cases ope ated upon within the first six hours of the injury in one of the three operated upon within the first six to twel e hours and in two of the nin oper ted woon within the first twelve to twenty four hours Cases operated upon after twenty four hours were fat !

In none of the cases with rupture of the liver was there any disease of the liver Of the ten patients with the condition who were operated upo four were cured. The two who were not operated upon d ed The method of hamostasis was usually omen

tal tamponade

Of the six patients with rupture of the spleen all were operated upon but only two were cured extir pation was done in four cases and omental tampo nade in two

Of the eighteen patients with rupture of the hidney only three were operated upon two were cured and one died Of the thirteen patients who were not operated upon three died. On discharge from the hospital eight of the patients had no symptoms and two complained of pain in the lumbar region

The two patients with rupture of the gall bladder and pancreas respectively were both operated upon

The conclusions drawn are as follows

In cases of abdominal contusions there is no sign by which injury of the vi cera can be ruled out. A correct diagnosis can be made only from the com plete syndrome In every case of contusion of the abdominal wall in which an injury of the abdominal vi ceta (with the exception of the kidneys) is sus pected immediate operation is indicated

In cases of rupture of the intestines the prognosis is best when operation is performed during the first

In cases of rupture of the liver or spleen opera tion should be performed at the earliest possible moment. The most advantageous method of obtain ing hamostasis is omental tamponade. The abdom inal wound may be closed

In the large majority of ruptures of the kidney healing will take place under conservative treat ment Operation is indicated only when there is danger of hamorrhage or wh a intraperatoneal rup ture of the kidney progressive hamorrhage into the renal bed or infection of the renal parenchyma is suspected

In rupture of the pancreas the abdominal cavity should be isolated with tampons PETROW (Z)

R senburg A The Differential Diagnosis of Sur-gical Abdom nat Conditions and Tropical Malar a Cur D fler nt add agn ede chru gs hen Abdomnale kranku gen und d Malar a tropica) De i che ned li (k. s. 2 1923 kr. 8 t.

The author reports two cases of malaria without typical temperature curves in which the symptoms suggested abdominal dis asc. The first patient had never been outside the environs of Berlin. On the basis of the blood examination a course of salvarsan treatment was instituted. After the nationt s ad mission to the hospital he experienced a chill and his condition became markedly worse. Laparotomy wa then performed on the basis of a diagnosis of peritonitis Besides a large quantity of clear exudate the only findings were enlargement of the liver and spleen Examination of the blood then disclosed the rings of plasmodium immaculatum in the cryth tocytes. An energetic course of quinine was given but the patient died Autopsy showed cirrhos s of the liver and enlargement of the spleen but nothing abnormal in the gastro intestinal tract. The ervth rocytes in the cerebral vessels were crowded with parasites

The second patient contracted a malaria like affection during the war As the Wassermann test was positive saharsan was gnem. Dunng the course of the last injection the patient esperienced a chill and later suffered pain along the costal margins and distribution. At the pain of a not cases with the fall in the temperature a diagnosis of perforated ever was out of the question. The following day the patient showed unusual spathy and the abdome as some hat die tinded. Examination revealed en largement of the liver and spleen and if ght sexices. The unne contained a large quantity of albumin tropical rings. Improvement followed a promptly in situated course of quante

Malaria has now been brought into Germany The statistics show that 37 per cent of the cases of all types and 50 per cent of the cases of tropical malaria are those of persons who have never been outside the country. Diarrhora indicates the dysen teric form of malaria tropica. The chills are often slight. The diagnosis can be easily confirmed by the blood picture. The red-cell count and the hæmoglobin are decre sed. A leucopænia a relative increase in the large mononuclear leucocytes the presence of poskilocytosis anisocytosis and erythro blasts and inversion of the blood picture are also of diagnostic importance. Basophilic stipping of the red cells and a marked (more than 10 per cent) in crease in the large mononuclear leucocytes suggest malaria even when no parasites are found. Tropical malana closely resembles lues throughout its course COLLEY (Z)

Coff y R G The Relation of Right Sided Ab dominal Pain to Right Sided D sease J Am M As 9 3 Ixxxx. 900

Pain in the right side of the abdomen is one of the common symptoms elected in routine examinations. The gall bladder paincreas kidnes appendix or ovary is usually suspected. Lichty, in reporting a series of 1,320 cases diagnosed as chronic appendicuts calls attention to the large number in which

the same complaints were made after the operation.

He believes that not more than 60 per cent of these patients were suffering from chronic appendicitis. Coffer finds 70 per cent of those operated upon for chronic appendicts not benefited.

In a large percentage of cases chrome pain in the right aide of the abdomen is d e to d fecti e fixation of the descending colon. Anatomists claim that from 20 to 40 per cent of all persons ha e defective peritoneal fusion. Defective peritoneal fusion may result in

r Simple mobility of the cacum with normal firstion of the ascending color
2 A colon rotated o er so far that it becomes

attached to the anterior surf ce of the kidney but the ascending colon and the caccum remain mobile 3. A colon pot rotated over farther than the anterior surface of the diodenum to which it be comes attached and from which it hangs as a dead which the according colon having a long mesentery. 4 An ascending colon not fused to the p-n til pentoneum the kidney and duodenum being en tirely exposed

Between these types there are of course an infinite number of gradations Pain is produced by distention of a mobile prolapsed excum or by traction on acquired membranes or bands. The majority of membranes are inflammatory in onga-Coffey reports the case of an 18 year-old gard whose chief complaint was chronic pun low down in the right that fossa. The pre-operate e diagrass was chronic appendicitis. At operation the ascending colon and carcum were f and complitely mobile A strong membrane split in places 1.. to white fibrous bands extended downward diagonally from the parietal peritoneum to the middle of the ascending colon where it was attached and act-d as a ligament. The appendix extended upward for 8 in and its distal end was d eased. There was an early viceroptosis due primarily to the mobile cæcum. The pain complained of for two and onehalf years was due to the membrane attached to and pulling upon the ascending colon. It was most

severe when the patient was up and about In a number of cases forced feeding and fatten gwill give relief. Surgical measures usually const in shortening the mesenters of the caccum and ascending colon and fixing it by interrupted sutures I the posterolateral parietal peritoneum. When the caccum is greatly deliated and baggy pl cation of its wall may be advisable. Jons W. Verze M.D.

Von Teubern The Clinical Results of Pneumoperitoneum (klinische E g binsse des P curoper t ums) Forts k d Geb d Rec 1's t ak. 923 xxx 215

The author reports on more three case et amoned by pneumopentoneum In twenty thre the indication was a continuous unexplana le abdomnial pain. In these it was possible 1 ret ample to recognize chronic pentriphilits which is some cases was not suspected dimardly. The \(\) retreated a tumor lake about 2 by datapunhel from the shad was of the lare kidnes by datapunhel from the shad was of the lare kidney pel as and \(\frac{1}{2} \) tale a line several instances adhesions wer for \(\frac{1}{2} \) extended from the tumor to the abdomnial will.

In some of the case the examination was rade to determine the cause of a throne iterus and an oth its to di cover the origin of a palpable town in the region of the h er in gall bladd? The proced or re called, among other conduins or rhouse of the lover choice it extrapols a dispersion of the remaining the resonance of inflammators adhesions and liver and gall bladder it more but the din to permit any conclusions as to the cause of bile state so ratchelogical diffusions between the liter gall bladder and atomach Gall stones could not be d texted with certain the contraction of the case of the c

In cases of tumors of the pancreas presenter) kidneys adrenals and ovaries the examination was disappointing. The kidney is shown better by pneumoradiography Fumors of the stomach intestines mesentery and pancreas could not always

be made out distinctly

In cases in which hepatic syphilis was suspected pneumopertioneum was usually of aid as it revealed the gross changes in the shape of the liver associated with this condition. It was of value also in the darnosis of liver abscess.

In ten cases in which peritoritic adhesions or peritorical tuberculosis was suspected the findings

of the examination were positive

A constant therapeutic effect of pentoneum was not observed but na number of cases cherily those with vague abdominal pain due to adhesions the pain was allevated or ceased after the examination. In conclusion the author summarizes the X-ray findings characteristic of a number of abdominal conditions and destribes the best technique for penumber of abdominal with the conditions and destribes the best technique for penumber of abdominal conditions and destribes the best technique for penumber funding the penumber of the p

Nather C and Ochsner E W A Retroperi toneal Operation for Subphrenic Abscess With the Report of Two Case S I Gynce &

Obst 1923 xxx 11 665

The authors divide the subdiaphragmatic space into four main divisions. The right upper posterior space located on the posteriolateral surface of the liver and between the liver and the diaphragm is described in particular detail as the subject of this article is subphrenic abscess complicating appendi

citis The routes of infection and the diagnosis are discussed and two cases are reported

The technique of the retroperation is described in detail. The conclusions drawn are as follows

I Careful exact clinical observation of persons whose condition does not return to normal following an attack of appendicitis will lead to an early diagnosis in a larger percentage of cases of complicating subphrenic abscess

2 In cases in which clinical observation does not lead to a diagnosis exploratory aspiration should be carried out retroperitoneally beneath the diaphragm

3 In cases of subphrenic abscess it is unneces sary and dangerous to use a method of drainings which exposes to infection the uninvolved pleura or peritoneum

4 Especially in cases of secondary subphrenic abscesses complicating appendictits an operation is necessary which will drain abscesses in the subhepatic and suprahepatic spaces at the same time. This combination occurs in 50 per cent of the cases. The retroperational operation meets the requirements.
5 A consisting emparation meets the requirements.

5 A co existing empyema may be drained through the same incision without further rib resection

6 The retroperitoneal operation is surgically and anatomically the operation of choice for the drain age of subphrenic abscesses complicating appendicting.

Fig. C. Robitshek M.D.

GY NECOLOGY

UTERUS

Tédenat Hæmorri age Due to Intra and Fatra Uterine Fibrolds (Hem tr ges 1 s fb m s utenn endo-t to-utén es) G s l 1 1923 x il 321

The author reports a number of cases some of them has on and some of them those of other of servers in which severe bleeding was caused by sub-murous or subsentioned growths. The most common types of bleeding were memorith guand metror things which appeared to be independent of the saze of the fibroid. In some cases the growth was no explained that the subsential that the subsential

Tedenat reports also se eral cases of subserous fibroids with varicosities the rupture of which cau ed severe intra abdominal hamorrhages.

JAMES V RICCI VI D

Fournier Hemotom tra and a Justa Cervical Submucous Hibrold, Subtotal Hyat rectany; Neoplastic Defeneration of the Gerita Death One Year Later (Hem 16th et Hir mesom queu ju 1-cr ; 1 hit eet m subt tale dépt éres e copi qu da ol mr tun an pêt) B l Sec d'hi ed ty l d l 1013 mi 410

The case reported was th t of a woman 64 years of age. The uterus was of the size and consusency characteristic of a five months pregnancy. The age of the patient mas sufficient to exclude year to though the properties of the properties of the properties of the size of the properties of the properti

Section of the uterus revealed a c flection of old blood and blood clots and a large submucous fibroid the size of an orange which completely obstructed the cervical canal at the internal os

Six months after the op r toon a small tumor mass appeared on the cervicual stump Microscopic examination revealed epith had malignane. The patient refused rad um treatment and thed one year Jaxes V. Ricci W.D.

Schwartz E. Injuries from Roentgen Treatment of Mjomata and Hæmorrh gic M tropathie (Leb 5 h ed gang be d R tg al h ilung on My me u d hæm h m h Metropath.)

S ki hr pe 9 3 x 305

The author reports injuries he obsered in the rountgen treatment of twenty nine case of myomata

and harmoerhage metropathies The ray) were applied at a single sitting to a small near field in three cases and to a large distant field in the other. Lehnanns 1 tible was used and one dorsal field and the state of the state o

Int elve cases se er somiting vert go and head ache occurred during the treatment. In some cases the raying was followed by d arrhora and occasional ly this was accompanied by severe intest nal tenes mus and the passage of mucus T n of the women were confired to bed for a considerable length of time. The author reports t o cases with a san guinous d'arrhora. In one it was necessary t operate four months after the treatment for th removal of a sausage shaped tumor of the sigmo d f rure The sangu nous mucoid diarrhers began after the rad ation treatment and did not veld to me I cal or d etetic treatment. When the abdomen was opened very marked changes were foun I in the surme dover an extent of 12 cm The intestinal wall na white firm and rigid and was covered by a hard nodular leposit. The mesentery was shrunk and the peritoncal covering of the true pel is was white and thicken d A portion of the sigmoid 15 cm long was resected and the bovel united end to end Healen was normal except for a discharging ulcer in the cutaneous wound. The latter was thought to be a ! te roentgen injury The changes in the resected portions of the intestine consisted in an e traord nary thekening of the ulter ted muco a of the wall and sclero : of the connective tissue The dose which caused the severe intestinal burn in this case was at the most go per cent of the skin ers thema dose

Schwarz concludes the this technique needs to a ion and that particularly in cases of momals and metropathies only the smallest off the dose should be employed.

MARTICS (G)

Stu bl r F Uterine Cyst (Lt ruscyste) Zes

This is a report of two cuess of gist of the uteru. The first was what of a mantered woman 90 years of age he had been sterile for the eyens. The menstrual persods had all ays been irregular occurring every eight to twelve eels and listing one to one and a hill days. For the past yet and a hill the pattern that dhad pain in the lower abdowned. It is parsoness the uterus was found to be the six

of two fists and was removed with the firmly adh rent right adnexa. The left adnexa had been removed ten years previously

The cervix presented no peculiarities and the uterine cavity was small. The greater part of the uterus consisted of a cyst larger than a fist which was sen rated from the uterine cavity by a thin layer of tissue This cyst contained old black blood and was lined with a single layer of columnar

enithelial cells

The second case was that of a para 11 38 years of age By laparotomy the author removed a kidney shaped tumor which had developed between the beaments on the right side in the region of the in ternal os with its base the size of a silver dollar attached to the right posterior surface of the cervix The uterus and adnexa were left The extirpated tumor proved to be a fibromy oma showing retrogres sive changes In the center of the growth was a large cyst and in its lover pole were several small cysts lined with a single layer of epithelium and filled with mucus

In the author's opinion, the cost in the first case developed from cell groups cut off from the already united muellerian ducts while the cysts in the second case had their origin in Gaertner's duct

SCHMIDT (G)

Hunt V C Cancer of the Uterus J Lan 1 1021 h 566

As cancer of the fundus of the uterus is not as mal gnant as cancer of the cervix its early treat ment by hysterectomy gives better results. Can er of the cervix is highly malignant and in more than 50 per cent of the cases is inoperable. It is most successfully treated by combining radiation with surgery The outstanding sign is a blood tinged vaginal discharge, this occurs in no per cent of the cases Intermenstrual and postmenopause bleed ng or spotting should be regarded with sus picion and in estigated without delay. When there is doubt regarding the presence of malignancy a specimen removed from the cervix for microscopic examination or a diagnostic curettement will dispel the uncertainty

It is improbable that further development of the present accepted methods of treating cancer of the uterus particularly cancer of the cervix or the inst tution of new methods will materially impro e the results. The time of application rather than the method of treatment is at fault. The most effects e means of combating cancer is education of the lasty It is chiefly through energetic educa tional campaigns that material improvement in the end results is to be expected

VERIC HEST MD

Schmitz H A Study of the Action f Measured Radiation Dos s on Carcinomata of the Uter ine Cervix im JR if I 1923

The effectiveness of radiation depends on the radiation energy applied the extent of the disease

within the true pelvis the type of epithelial cell composing the new growth and the constitutional reaction caused by the radiation. The prognosis and the method of treatment must be based solely upon these findings

The author studied cervical carcinomata from this point of view in an attempt to ascertain the lethal radiation doses for the different types of cells

found in the new growths

Carcinomata of the uterine cervix are composed of basal squamous or cylindrical epithelial cells The greater the degree of immaturity of departure from the adult normal histological type the greater the clinical malignancy

In the treatment of carcinomata with radium and the roentgen rays changes are produced in the parenchyma and in the stroma The carcinoma cells undergo deceneration and the connective tissue cells and blood vessels of the stroma show signs of in flammatery reaction These changes the author

describes in detail

Variations in the clinical response of different types of malignant disease to radium may be readily observed and these differences appear to be related to variations in the histological character of the growth The physiological action of the rays is proportionate to the amount absorbed but depends also upon the kind of process initiated through the transformation of absorbed energy The proto plasm of benign cells and of the different types of malignant cells reacts differently toward the rays The more und fferentiated and embryonic in type the carcinoma, the more effective the action of ra dium rays upon it Radiation sensibility is greatest in the immature basal cell type less in the adeno carcinoma and least in the squamous cell car cinoma The action of radium is local Within tissues or

tumors its intensity depreciates rapidly. A homo geneous penetration of the entire true pelvis with rad um rays inserted in the cervix is impossible Radium used alone can be beneficial in only a small number of cervical carcinomata. The combined application of gamma and roentgen rays renders possible a method assuring homogeneity of radiation intensities throughout the pelvis and greatly ex-

tends the field of radiotherapy

The application of a lethal dose to carcipomata causes destruction of the malignant cells and to some extent of normal cells especially the white blood corpuscles The split proteins are absorbed and a non specific protein toxicosis ensues which is e idenced by an increase in the nitrogen con stituents and a decrease in the chlorides of the blood A cancer patient who does not react to the rays does not show any disturbance of nitrogen metabolism in the white blood cell count or in the perce tage of the white cells. The absence of these reactions indicates a negative result from the radiation treatment due to general res stance (noted especially in advanced cachexia) or insuffi ci nt dosage

The blo d of pritients in a hom the carcinoma h leen completely degenerated by radition ho carcinolytic prop ties as determined by the Freund Kimmer test. In such cases the palpatory find n are negative and mic occypic examination of its suc

to ed from the healed cervix reveal t tal ab

The author repots briefly the results obtained in different typ so clear in with difficial to sain 418 consecutive cales. The tent to education draw at that the I that cale in made for unripe basal cell cancers in about 100 per cent of the crythema shind of the lighth for definition of the contraction as about 130 per cent and that for squamous cell carcinomata from 150 to 0 per cent. Anours Harrica M.D.

Oppert M A Discu lon of Som of the Causes of Inefficacy of Radium in Cancer of the Body of th Uteru (D cus n sur q lque sus s 11 ff té d r duant dns le c r d c rps d lutfru) Gy 1g 923 xs 2 8

The uthor ascribes poor results of radium treat ment in ca so of cancer of the body of the uterus principally to faulty techn que. If the applicators are placed properly the esuits are usually good Certain suretheal cylindrical epithel oma of the

corporeal mucosa have b neu ed with radium.
Long apple cations vith low dosage give better
results than heavy and short doses. For cases of
cylindrical cancer of the uterine body Oppert
ad uses a systematic biopy followed by curetiage
with careful divinfection of the uterine cavity and
the prolonged application of a small dose of r dum

SALATO E IN PLAN M D

B il y H and Healy W P Follow Up Re ult of 988 Cases of Uterine Cancer T ented by Radium Am J Ob 1 & G, c 9 3 1 4

In the cases of advanced primary cancer of the cervix there was ery little chance of obtaining a cure und r any circumstances. When treatment was und rtaken not only the cerva but also the paramet ium wa involved. These ca es formed the largest group. Of the eighty patient treated in th years 1915 1917 when radiation was done without much c oss firing only two are still alive Of forty one tre ted in 19 8 hen the bomb and block were used si (145 per cent) are alive and f ee from disease today. Of st ty nine triated in gig only seven are still ali e ind in two of these the disease is progre i g Of the n nety two p tients tr ated in 1920 fift na eliving but seven have symptom Of eights fiv w nen tr ted in 19 1 twel e (14 p r cent) are still al ve and ell and nineteen are in v ous stages of the di ease. Of the eighty t eated in 922 twelve (15 p r cent) are pparently well and fo ty h e are living but not will While not enough time has elapsed since the treatme t gi en in the last two y r t warr nt co clusions the final results it in v be stated th t of the 165 women ho ere beyond the a d of surge y twenty four now sh w n clin cal evidence of cancer

In the first five vears thirty three, women whe borderin cervical cancer were treated eight (a them (12 per cent) are still hiving and all but one of them are known to be free from word nee of their deare. Of the fifty one women is the this condition who have the condition of t

who were treated previous to January, 1919, 60 these three (27) per cent) are alive and free from evidence of cancer at the end of five yea s or longer. If three deaths due to intercurrent disease and of Illowing operation in another clinic are deducted, as per cent of the cases were clinically cut of In the last four years forty e ght women were treated of these thirty two (66 per cent) are fire from

evidence of the disea e If three a é deducted—one ho died sitte an operation in another hosp tal a neek after treatment and two others who could a 1 neek after treatment and two others who could a 1 he traced—thray two (7 pr ne cent) of this group a still alive. In early operable cassa excellent result are evpected from irrad ation and other treatment is a loom given. However as there seems to be no cancer of the corner of the sometimes performed in fa orable cases several weeks after full: dation just how much: 1 to be gained from this is still the properties of the contribution of the contribution

a matter of conjecture

Of fifty two women as the recurrent cance who were treated previous to yight two are still all value and sell and an their sa alve but with some evid need tumor. In the past five years during what the the technique has been considerably eshorted to the use of cross firing and the embedding of radium eman toon in the less on a remarkable number if these cases have been apprently careful of the 158 women in this group thirty-eight (2) per cent) have no clinical evidence of cancer.

Of twenty nine women subjected to hy te ctoms in the p riod from 1917 to 1923 t venty-one (725 per cent) are all e and free f om signs of recurrence and five of these have been v ll for hye years

Of forty one women with cancer of the body of the uterus it enty one (49 per cent) are alve and well. Three of these have passed the five year p ind nine we e subjected to hyste ect my follow ing the irrad at in Livara L. Cox J. M.D.

ADNEXAL AND PERIUTERINE CONDITIONS

No ak E and T Linde R W The P th logical An tomy of the Goru Lut m (Ab ce Cyst Hæmat ma and Neopl sm) B il Joh Il pk Il p B lt 93 89

This article i ba d on hundreds of sections of c ripora lutea examined in the gracol gical luboratory at the Johns Hopk a Hospital during the past the or four te rs

The most important pathological conditions affecting the copus luteum ar (1) abscers from ton (2) cyst (3) hæmatoma and (4) neoplasm

Corpus liteum abscesses are very frequent constituting a considerable percentage of ovarian abscesses. It is probable that they arise from infection of normal corpora letter corpus lateum cysts or corpu lateum harmatomata. It is often difficult to draw a line between cysts and harmamata and the individual variations observed in the corpus lateum under normal conditions. The two most important factors in this differentialition, the test of this funting wall. Bothly a conter of this funting wall. Bothly a contential conditions are contentially associated with petric inflammatory attention.

Corpus luteum cysts may be subdivided into (1) newly formed cysts in which the luten layer is well preserved and there is little or no fibrous it sue deposit between it and the contents and (2) old cyts in which the age is indicated by retro gression of the luten zone and by the heavy organ

ized layer on its lumen side

A review of the menstrual Instones in cases of new coppus luteum exist indicates that in general the luteum zone corresponds to the developmental stage which would be expected at the time and that the structure in spite of its cystic nature is still of functional importance. The old c cysts on the other hand have entirely dispersion of the physics increase and even or influence on the menstrual function.

These fandings throw doubt upon the prevalent impression that corpus lateum costs hat ea tendency to del v menstruation and that they bring about a clinical syndrome easily mistaken for that of tubal pregnancy (amenorrhaes followed by prolonged and the proposition of the control of the cont

Corpus luteum hæmatomata are commonly due to excessive hæmorrhage into the lumen during the stage of vascula ization. Like the cysts they may be divided into two types the recently formed and the old and these types bear the same relation to the menstrual phenomenon as the corresponding.

types of cysts

In certain cysts and hæmatomata the walls, present the characte site copins albicans structure With the exception of the few very large cysts of this character which have been reported but which are of doubtful nature the corpus albicans cysts and hæmatomata are doubtless metely the end results of the normal cystic or hæmorrhagic corpora lutea.

Various authors have described ovarian tumors of supposedly lutein origin. There is no reason why

such tumors should not occur growths chelly carrinomats which suggested such an ortigin have been such as the such

The condition spoken of as multiple littern cysts of the owary which is found in certain cases of hydatidiform mole and choronepitheloma and is sometimes erroneously designated as multiple corpus lateum cysts is due to a wide special ulten like transformation of the theca cells in the atrette follicles which are greatly increased in size and number

Fxcellent photomicrographs illustrating the various conditions affecting the corpus luteum are in cluded in the article R S Cros M D

EXTERNAL GENITALIA

Dieulofé M. L. Multiple Cysts of the Vogina

(Ky t. multiple du gt.) B. ll. Soc. d obst. et
d. gy têc d. Po. 923 11 34

The case reported v as that of a 32 year old part in in the second month of pregnancy who complianed of vaginal print and a vaginal tumor. The tumor had been punctured, but subsequently had increased

At operation a large cyst extending to the cul desc and almost to the base of the broad I gament was exceed from the left wall of the vagina and three others ranging in sez from that of a walput to that of a small egg were removed from the right wall. The walls of the smaller exists were thin and their contents visicid and transparent. In a cest of medium size the walls were thicker and the contents sanguinous. The largest exist had a very thick will and infected contents.

Microscopic examination showed the lining mem brane to be covered with cuboid epithelium

SALVATORE DI PALMA M D

MISCELLANEOUS

McCea H M and Bonney V Gynecology and General Med cine The Relation Between Certain Disorders of the Fernale P Iv CO cans and Symptom O dinarily Considered the Province of the Physician L 193 ccv

Clinical states that ordinarily vould not be sus pected of a gynecological origin include intestinal stasis genito urinary infections arthritis sciatica neuroretimitis cyclitis and choroiditis

A weakened pelvic floor may give rise to intestinal states which in turn may cause dilatation of the bowel and favor the absorption of toxums. A weak ened pelvic floor may cause displacement of the uterus with obstructive constipation it may produce rectocele cystocele and prolapse of the rectum and as the result of cystocele genuto unmary in

fection may occur
The factors involved in the act of defacation—
muscular contraction of the wall of the bowel a
ruse in the intra abdominal pressure produced by
straining and contraction of the fibers of the levator
ani—are discussed and the mechanism of cystocele
rectocele prolapse of the rectum displacement of
the uterns and enteroptosps is explained.

Symptoms which may be of ginecological origin include obstinate constitution heart disease which is in reality a distended splenic flexure of the colon indigestion due to fallutent distention of the stomach neurasthems and arthritis due to lox arms of infected tubes or an endocervicitis. In certain cases infection of the eye may have its primary focus in the pelvy organs.

primary focus in the pelvi organs
To emphasize the importance of a careful gyne
cological examination as a part of a general examination numerous cases ill strating the various chincal
manifestations of gynecological conditions are cited

I EDWARD BISHKOW M D
Curris A H The Pathology and Treatment of

Chronic Leucorrhæa A Further Clinical Study
of This Subject Su g Gynce & Ob! 1923
xxyu 657

In extensive histopathological and bacteriological studies of chronic leucorrheta the source of the purulent discharge was found to be the cervix Prior to 1919 the results of treatment were uniformly poor Recently following the treatment outlined in the article the results have been more favorable

The patient is given introus orde and the vicinity of the urethra is searched for infected Skenes duty and urethral glands. Diseased for an et hreaded on the blunt end of a needle the tract is laid open the kuile and the lining is full guarated or cauterized. Bartholin a glands are seldom found diseased.

In the author's hands radium has yielded good results in selected cases in which surgery was not advisable. Occasionally he has used radium after the removal of a wedge shaped ports not the cervic. The technique of radium treatment is as follo s.

After dilatation and curettage two 5 mpc tubes of radium in tandem are introduced into the canal and held in position by means of a chip at texternal os. The screen is an ubber-covered gold capsule o 5 mm that. In the cases of youngs owner with regular mentatruation the application of the case of the control of the case of the c

The immediate result is a greater discharge who persists for many weeks. This is followed by a period in which there is no discharge. During the waiting period the cervix is dilated at intervik. Usually the improvement is gradual. In a consider able number of cases a second radium treatment is necessary. Harak W. Fix. M. D.

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Pribram E E The Cholesterin Metabolism During Pregnancy and the Puerperlum (Zur Fr go d Cholesten stoffword els wachtend der Schwan g rschaft und im Wochenbett) Arch f Gynack to 3 c.hu 57

Diving pregnancy there is a considerable decrease in the bilary cholestern while the cholestern con tent of the flood is raised. After delivery the cholestern is rapidly carried away chefly through leaten is rapidly carried away chefly through extention to rightly carried away chefly through extention of cholestern there is an increase in the concentration of the cystic bile probably due to cheficiery of fluid in the body from the loss of bull occurring during delivery. Both factors explain the formation of gail stones following delivery.

The temporary cessation of orarian function during pregnancy seems to favor hopod retention. In experiments it was found possible to increase the cholesterin content of the blood and decrease it in the bile by exclusion of the ovarian function. The cy tie bile was obtained by means of a duodenal sound after the injection of Witte spectors.

PRIBRAM (G)

Boursier and Gautrer Acute Hydramalos Abdominal Posteture Continuation of the Pregamancy (Hydram a gau pont in abdom) le cotru in ndelagrees) Bull sec doù i days ed P 933 189

The authors report a case of acute hydramnios in the eighth month of pregnancy. The abdominal distention had increased so rapidly and had become so marked that it produced severe epigastric pain and

respiratory distress

lly means of a Potan trocat No 1 paracentess of the utrus was done through the adodmand wall below and to the left of the umbit us 2 liters of ammotic fluid were authorism. The symptoms of pain and respiratory distres sceased. By the seventh day however the abdomen began to enlarge and the symptoms recurred. After rupture of the ammotic act labor was induced by the introduction of a bag. The authors preferred abdominal parature to interruption of the pregnancy at first because of the impossibility of determining definitely the size of the fetus.

Martin J The Indications for the Treatment of Severe Pyelonephrosis Compileating Pregnancy (Des indi sti va di autement d's formes gra es d py lonephrite g ad que) J d'u i méd tchy 19.3 x 445

Martin reports a case of pyelonephrosis in a 20year-old woman in the sixth month of pregnancy

As ureteral catheterization for irrigation of the renal p lvis became impossible nephrotomy was done miscarriage followed. Immediately there

after the patient's condition improved.

In the literature Martin has found the reports of ten cases of severe pyclonephrous occurring be tween the fifth and eighth months of pregnancy in which immediate improvement followed the in duction of labor. He has found also the reports of nine cases in which pyclonephrotomy was done in eight of them the operation was followed by abortion and in four a nephrectomy was done later Martin believes that since the renal infection is incidental to the gestation the induction of labor might be sufficient to effect a cure

TAMES V RICCI M D

SALVATORE DI PALNA M D

Tourneux J P Vaginal Hysterectomy in the
Treatment of Peritonitis Due to Abortion
(Du t attement des pé itonit s post abort ves par
l'hysté ect mue vaginal) Bui S c dobsi et
gynée de Pa 9 3 x 1 554

The author reports three cases There was one death. In two cases medical treatment was tried

first but was unsuccessful

Tourneux prefers the vaginal to the abdominal
hysterectomy because it causes less shock it can be
performed with more speed and it is free from the
danger of infecting the general peritogeal cavity

Durentey and Dax Pyelonephritis Complicating Pregnancy Treatment Combining Intervenous Injections of Unitorpin and Irrigation of Consecution of the Petrological Combinet of the Pyelone of the Petrological Combinet of a 1 pection of the arm pay in methods combinet day agent of the Petrological Combinet day agent of the Petrological Combinet of the Pyelone of the Petrological Combinet day agent of the Pyelone of the Pyelone of the American Combinet of the Pyelone of the Pyelone American Combinet of the Pyelone of the Pyelone American Combinet of the Pyelone of the Pyelone of the Pyelone American Combinet of the Pyelone of the Pyelone of the Pyelone American Combinet of the Pyelone of the

For the treatment of pyelonephritis oc urring in pregnancy the authors advocate intravenous injections of urotropin and irrigation of the renal pelvis with an antiseptic such as boric acid argyrol or protatgol They give intravenously 1 gm of uto tropin dissolved in roccm of sterile water every day or every other day until improvement is in dicated by a fall in the temperature. The renal pelvis is irrigated with a 1 1 000 solution of 3 lver estrate at the conclusion of the irrigation a small quantity of a 5 per cent solution of argyrol or a t per cent solution of silver nitrate is injected Cathetenzation has been done in most cases three times a neek but should be repeated daily if neces sary Ureteral catheters can seldom be left in silu without causing considerable discomfort

JAMES V RICCI M D

Vayssière The Treatment of Severe Hyperemes s Gravidarum with Chloral (vom s me t gra nd ques gra es t attem t par le chloral) Bull Soc d ob t 1 de gyncc de P 923 x 25t

The author reports two cases of severe hyper emess grandarum that proved refractory to the usual treatment by starvation and the administration of adrenalin belladonna and accounte but were finally cured by enemata of 3 to 4 gm of chloral hydrate. The vomiting ceased after three treat ments. Yours V Ricer VID

ments

JAMES V RICCI VI D

Litzenberg J C Myomata of the Uterus and Pregnancy S E Cln V Am 19 3 1 285

While myonals in the pregnant attenus are common they are stellors allagerous complications of pregnancy, labor or the puerpersum. In a few cases however operation is necessary on account of their size rapid growth location in the lower segment incarceration in the pelvis pressure symptoms threatened abortion or contracted pelvis. Myomats of the pregnant atterus almost always increase in size the enlargement being due to growth of the timor elements and cedems. The timons are very much softer than in the non pregnant uterus and may be mistalea for cysts. After delivery they

decrease in size rather rapidly
It is remarkable how frequently when it is
thought that the tumor will produce impaction it
thought that the tumor will produce impaction it
to remark the remarkable of the remarkable
more start of the remarkable of the remarkable
more start of the remarkable of the remarkable
more start of the remarkable
more start of the remarkable
more than the remarkable
more to the remarkable
more than the remarkable
more

HARRY W FINE M D

Reeb The Diagnosis of Intra Ut rine Pregnancy Complicated by Fibroid (Apopos d diagn to d I grosse compagnée de bbr mes) B II See d b t t d g, l d P r 19 3 43

Before the fifth month of gestation the Vray is of no value in differentiating an intra uterine pregnancy from a fibroid uterus. Uniform enlargement of the uterus congestion a soft consistency and broad lagament vancosities a e found in both conditions. Rowslide advocates sectioning the ovar es to those from the conditions of the conditions of the conditions of the conditions. This would be of aid only up to the third month. Pathogomomous of myomata is a change in the position of the mass noted at r peated examinations made at intervals. Justic News M.D.

Schickelé Th Diagnosis of Extra and Intra Uterine Pregnancy (Ap pos du diagnosti de la gr esse tra t nira utéri) B ll Sec d' but et d grace d P 9 3 n 435

Sch ckelé reports two cases of erroneous d agnous of extra uterm pre-mancy. In the first that of a

woman in the seventh month of pregnancy the error was due to atony of the uterine wall which rendered the fetal parts and heart sounds very distinct. In the second that of a woman in the second month of pregnancy, it was due to variously of the broad higament.

Auvray and Delater A Case of Ruptured T bal Pregnancy with a Go Existent Uterine Preg nancy (Un cas de grossesse art ifn e tubare r mpue a ec co-en tence d gros esse itins) B Il i mem Sc naid Por 923 xcu 421

A para is with a history of metritis after amenor rhora for one month was suddenly seized with scute pain in the left lower quadrant of the abd men. Following the application of hot compresses the pain ceased but a light vaginal bleeding appeared On the patient's admission to the hospital a diag nosis of tubal pregnancy was made on the basis of the very typical history and the findings of vagual examination On the morning of operation she passed a mass which examination showed to be a gestation sac Operation revealed rupture of the left tube due to tubal pregnancy Histological e amination of the specimens confirmed the clinical diagnosis In the authors opinion such cases a e SALVATORE DI PALMA M D not rare

LABOR AND ITS COMPLICATIONS

Danforth W C. and Davis C II Obstetrical Analgesia and Ancesthesia A Considerati n of Nitrous Oxid Oxygen and Vari us Combined Methods J Am II Air 1923 [222]

The measures used by the authors for the relef of pain in labor are divided into those which are applicable in the first stage and those which may be used in the second stage. The use of inhalation anæsthetics during most of the first stage is not re commended but nitrous oxide may be employed late in the first stage Reliance for relief during the first stage must be placed chiefly on drugs adm mstered hypodermically by mouth or by rectum The drug chosen may be one of the opi tes morphine codeine heroin or pantopon gi en alone or com bined with scopolamine (hyoscin) hypodermically or chloral g ven by mouth or rectum The authors prefer one of the opiates in combination with scopelamine such as morphine scopolamine or pantopon scopolamine the scopolamine being repeated if nec essary

In a long first stage 1 appeared that if the pattr ictn was relieved of pan she went through the long bours of dilatation with less fatigue and nervous strain and approached the second stage with her physical powers more nearly intact than if no relied was given in the first stage. In the use of the drust mentioned the authors have made no attempt to appro ch the occulted twilight step or to produce amnesia. Their desire has been only to duil the ett two the pain and pe haps to produce a light degree. of somnolence between the pains Usually this may be accomplished with morphine /6 gr (0 0108 gm) and scopolamine / o gr (0 00065 gm) given in two parts from fifteen to thirty minutes apart. If in the case of a noman whose susceptibility to oprum is above the average the contractions cease after the administration of the hypodermic medication thes do not resort to the administration of pituitary ex tract but as ast the spontaneous resumption of labor However this is not a freq ent occurrence

Because of the danger of narcotizing the child no opiate should be given within three or at least two

hours of dehvery

Pantopon ap sears I s ant to produce this effect than the other alkaloids of opium. The obstetrician must note carefully the rapidity with which the labor is proceeding and the progress already made In this experience is of great value

At the end of the first stage or in some cas's when the first stage is nearing its end it is necessary to add some form of inhalation anasthetic. In the authors experience nitrous oxide or the combination of m trous oride and oxygen has proved most satisfactory

A series of tables ummarizes the results in over 3 000 consecutive deliveries at the Evanston ho pital Evan ton Illinois and in two recent series of 400 cases conducted by each of the authors. The tech nique of administering nitrous oxide-oxygen anal

gesta is described briefly

The analgesic or the anaethetic should be chosen for the operation and the needs of the particular patient. For the long first stage of labor an objate alone or in combination with scopolamine is often in dicated For the longer operations during pregnan ty and labor ether is usually the inhalation anas theti of choice Nitrous oxide oxygen may be used for examinations and short operations and for inter mittent analgesia during the second stage of labor ROLAND S CROY M D

Gwathmey J T Done an E P O Reagan J and Low n I R Painless Childb rth by Syn rgistic Methods 1m / Obst & Gy c 19 3

In the development of the method described great care v s taken to reject all cases that would in any way obscure the issue 1 or instance ro medication was given if the uteru was dilating evenly and the contractions were occurring regularly with little pain as under such circumstances an even and sometimes a painless deli ery vas a sured Medication was withheld also when the cervix was fully dilated (four fingers or more) when the letal heart sounds vere irregular or poor when mal position was found and when there was any doubt regarding the condition of the child The cases selected were those not too far advanced in which there was a possibility of giving aid

The results have varied but in most instances the patient was helped the pains were less ened, and in a few the delivery was rendered comparatively painless Other patients were not

helped in the slightest and one or two stated that the pains were intensified. The last statement can be accounted for only by the possibility that the nationt who expected very great help received only

The formula used for the rectal instillation i to ge of quinine hydrobromide 4 de of alcohol 214 oz of ether and 1 oz of ohve oil Rehance for the major effect is placed upon the synergi m of

ether and magnesium sulphate

The hypodermic is given when the cervix is di lated approximately two fingers. If a 25 per cent solution of magnesium sulphate is used 16 or 14 gr of morphine may be given with the first hy podermic only If a 50 per cent solution is used no morphine is given. The hypodermic is not repeated unless the sedative effect wears off or is insufficient. The object of the hypodermic is stated to the patient as the relief of pain. The patient is kert as quiet as possible. If she is in a ward the bed is screened and if she is in a room the light is excluded and the door a closed Loud talking and other not e are avoided as much as possible

Just b fore the instillation is given the patient is told that its object is to relieve pain. When the cervix is dilated about three fingers and there are good contractions she is placed on her left side in the Sims position. The catheter is filled with olive oil in order to exclude air and is inserted into the rectum about 4 in. The syringe is filled with the entire amount of the instillation and the injection is given slowly with care not to admit air between the olive oil in the catheter and the mixture in the syringe Under gentle pressure the fluid is passed between contractions the entire amount being given between two to four contractions. The patient is told to squeeze up in order to induce reverse peristalsis She is told also that retention will cause no pain her cooperation being thus secured Pres sute is mad on the perineum with a towel during the pains for from ten to fifteen minutes and the tube is withdrawn in five or ten minutes patient is then permitted to lie on her back or in whatever position is most comfortable. Cotton i placed in h r ears and her head is covered with some dark colored material or a tor el Only neces sary attention is then given her and all manipula tions are made as gently as nos ible

tsphy xia oc urred in one of the sixty four cases an incidence of o 64 per cent. The authors con clude that synergy tic analge ia is safer than oil ether analgesia or t vilight sleep

LOWING L CORNELL M D

Chatillon F Injections of Pituitary Extract in Obstetrics (La questi n des njecti na d'extraits hypophysai es dans la pratique ob tétri ale) Rev f ne de gynée i d ob ! 1923 x m 448 Chatillon recommends the hypodermic or intra

muscular injection of pituitary extract during the terminal stages of cervical dilatation and the second stage of labor Doses of 95 ccm given at this time will hasten delivery and limit the amount of bleeding. Given intravenously the extract is most effective in stimulating an atonic uterus and in controlling postpartium hemorrhage.

I MES V RICCE VI D

R) der G II Breech Presentations Treated by Prophylactic External Versi n Report of Fifty Nine Breech Presentations So Treated S g G) c & Ob 1 1023 g N 1 660

Because of the danger of breech delivery even when the pelsu is normal the author converts breech presentation into vertex presentation by external version whenever this is pretectible. In the 890 consecutive deliveries in his private practice there were fifty inne breech presentations I enty four in primipair and thirty fit of in multipare. In the fifty inne cases treated by prophilactic

version the only fetuses lost were non viable two of the vomen were not under observation before labor. In none of the thirty primipaire did the fetus turn back to its original pre entation. In several of the multipaire this occurred but in all except two the fetus was easily returned to the vertey presentation. By far the greater number of versions were done in the seventh and eighth months. Twenty three

of these vere done without an anesthetic. There was no maternal mortality and in no case d d the ersion s em to harm the mother to the slightest degree. No appliances were used to retain the fetus in the corrected position. Il say W. Fixx. W.D.

Martin B II and Brinkl y A S An Unusual Accident During Deli ery at Term 1 g a 3f M th 9 3 1 457

The authors patient was a woman who had gone through three normal deliveries and had had no The pregnancy had been normal miscarriages Labor began at about 10 a m with occasional pains When the patient was examined at noon a diagnosis of breech presentation was made At this time there was a dilatation of about 2 in In the evening the cervix was dilated the pains recurred at intervals of five minutes and on examination the diagnosis was face presentation At 9.45 p m a l ttle chloroform by inhalation and a hypodermic injection of 5 minims of p tuitrin were given. The admin stra tion of the pituitiin was followed by a very severe pain and several slight pains for the next thirty or forty minutes There was a moderate flow of blood from the vagina As the head made no advance the operator prepared to do a version On introducing his hand he found that the baby was out of the uterine cavity and his hand was in the abdomen A version was quickly done and a dead child delivered The placents was removed manually

On further examination the vag nal vault was found to be completely torn away from its attachment to the cervix only a small brid e of t ssue remaining posteriorly. The vagna was quickly nacked with gauze. The patient at this time showed

no evidence of shock her pulse ranged between 80 and 85. She complained of severe pain in both like regions ra lixtung to the bips and down the thighs and of difficulty in breath ng.

A lanarotomy done under gas oxygen and ether anæsthesia reverted a small amount of blood in the abdominal cavity and blood clots in both broad ligaments. The uterus was well contracted and showed no signs of rupture The uterus was found to be su pended only by the tubes and a sm ll brid e of the vaginal attachment about 15 in wide Both broad I gaments were lacerated up to the pel ic brim. The uterine afteries which were pulsating and as free as if they had been carefully d ssected were nuickly clamped. As the left tube and ovary were injured and their blood supply had been cut off they were removed with the uterus. The right tube and overy were preserved. The vagina was repured and closed with a pursestring suture around a cies ette dra n The stump of the right broad beament and the tube were fixed to the vacunal y ult for support and the raw surfaces were covered with the peritoneal reflection of the bladder About a at of saline solution were left in the abdominal

The patient r covered after a fairly stormy con valescence HARRY W FINK M D

Command u l and Chaput L. The Mechni m of the Separation of the Placenta and Membranes During Delivery (Le métani m tim du lécoli m at du pl ce taet desum mbranes c d l délivrane) Gy é l bit 19 3 440

Separation of the placenta is brought about by uter an contractions occurring after the immed at retraction of the uterus following delivery. The contractions first increase the thickness of the contractions first increase the thickness of the contractions first increase the thickness of the level its middle segment uniform in thickness. Their second effect is a decrease in the surface of the placental insertion. Their third effect which is of pedicing for the reduction of the surface of the placental insertion of the surface of the contraction of the surface of the placental particularly in its central portion.

The reduct n of the surface of the placental n. ertion and the increase in the thickness of the placenta have a double result (1) The decidua scrotina becomes si ollen to six or seven times its normal thickness (2) The chorion cull which are normally more or less tortuous in the placent during pregnancy are placed under tension.

The traction exerted by the chor onic villi on the compact layer of the decidua is transmitted to the interlacunar partitions and these being fragile break with ease

The merging of the lacunæ forms a gap into which open blood vessels pour their blood. This is the beginning of the retroplacental hæmatoma. As this hæmatoma is formed, it contributes mech nically to the sep ration of the placental surface.

It is thus evident that the mechanism of the silous traction has its maximum effect on the center of the placents and that the mechanical paration by the retroplacental hematoms can be careful to outer border of the placental hematoms of the placental hematoms of the placental hematoms of the membranes of the placental hematoms of the membranes of the placental hematoms between time of the placental hematoms between time of the placental hematoms between the placental hematoms of the placental toward the cervical orifice and the lower genuits. Therefore the separation of the membranes does not occur at the same time as that of the placenta.

SELECTION OF THE PLACENT OF THE ALLEY AND DESCRIPTION OF THE PLACENTAL OF TH

Chatilion F The Treatment of Retention of the Placenta 3 Injections into the Umbilical Vein (Le tra tem nt de la rétent n du pl c tap l in titons funcul e'c) Rer f a ç d p l te f

d bst 1923 XV 521

The mortality associated with manual extraction of the placenta ranges from 3 6 to 13 per cent and the morbidity from 3 to 75 per cent. Chaillion has obtained better results with the method employed a century asp by Mojon and others—that with the control of the second of the control of the

This method is now used in the ob tetrical clinic of Geneva when the Crede method fails. It i veriefficacious and his reduced by one half the number of cases in v hich manual extraction i indicated in some cases however a second and thrid trial may be necessary. Failure in the third attempt necessitates intra uterine manupulation.

JAMES V RICCI M D

Audebart and Rascol A Histologic Study of T o
Uterine Scars Due to Cassarean Section (Étude
histol gaque de dux cir t uté p t
césarie es) B U Soc dobt t gy é d P r
1923 x 1 40

In both of the cases reported t vo createan sections had been performed. In one the second vas done two years after the first and in the other after an interval of four years. At the time of the second operation a hysterectomy was performed.

Microscopic examination of the uterus revealed scarcely any scar but slight thinning out of the interior of the uterine surface was apparent. Microscopic study revealed normal union of the muscular layers with no evidence of ccatrization between the layers of the muscular bundles and the intering fibrous tissue.

PUERPERIUM AND ITS COMPLICATIONS

Thoms II An Outline of Po tpa turn Care

Am J Obst & Gy c 1923 444

After delivery a period of rest is of great im

Portance If after a short time a period of rest is not

obtained naturally the author has no hesitance in using codeine or even morphine to secure it

The first few hours after labor the patient is kept flat on her back without pillows After twenty four hours he may turn on her side for a short time After the third day she is encouraged to lie first on one side and then on the other and for a while each day on her abdomen On the third or fourth day he 1 propped up for a short time one notch on the Catch b d The elevation i increased daily and on the seventh day she is allowed to it up practically as lone as she desires. If on the tenth day the fundus has reached the level of the symphysis she is allowed out of bed in a chair for a few minutes. The length of time pent in the chair is increased daily as her strength increases and on the thirteenth or fourteenth day she is allowed to walk a little soon after the as she is able to come to the author's office a thorough pelvic and general examination 15 made

For the past few years the author's patients have been given a general diet from the fir t day of the purpersum. Thoms believes that the patient is more apt to realize that she is convalescing normally if she allowed to eat the food to which she is accustomed

In the care of the urinny bladder catheterization is done only as a last resort. The great danger of prolonged cystits resulting from catheterization done even under the most asceptic conditions must be constantly borne in mind

The routine use of castor oil and oth r purgatives following childbirth is regarded by the author as unnecessary. If the bovel are sluggish a mild vegetable cathartic or mineral oil is given at bedtime

In the care of the birth cand efforts are directed merely to the maintenance of a cpsis. The discharges must not be allowed to accumulate there fore vulva pad of aseptic absorbent material are employed. For the first two or three drys these pad we chunged at least every three or four hours. After we have the contract of the contract

traction and involution is borne in an attention of the first rest following deliver in the understands the breasts and implies are thoroughly deem so cause the breasts and implies are thoroughly deem so cause and water and a simple outniers is supplied to the implies is this sterile gause or oiled silk or proper Either sterile vaseline or landin may be used for this purpose. The baby is placed to the breast eight or ten hours after burth and thereafter: placed on each breast for five minutes every four hours until the secretion of milk begins to come in When this occurs it is nursed at three hour intervals during further; is done for the breasts every cleansing with borne and before and after each nursing

At the beginning of lactation the bre sts very often become engorged and painful. As a rule this is due largely to venous congestion instead of milk retention The application of a large hot compress gives almost immediate relief I f f issures are treated immediately on their appearance breast infection will seldom occur Various astringents such as glycette of tannin tincture of benzom or witch hazef may be used

The proper treatment of the relaxed abdominal wall following childbirth demands attention not only to prevent a pendulous abdomen but also for comfort. The author does not advocate the routine use of the abdominal binder but believes that such support cannot be dispensed with entirely. When the patient is up and about abdominal exercises to restore the muscular tone are presented.

EDWARD I. CORNELL M.D.

Ferrère Postpartum Eclamptic Selzures without Albuminuria Morphine Treatment Polyuria Cure (Cn es éd mpi q es p i p ri m sans al bum un tr t ment p r l morph p lyu ic guérson) B ll S c d obsi 1 d 2 g & de P

The author's patient a primipara at years old experience d a severe eclamptic seizure just after delivery. Rep ated examination of the urine showed the absence of album 1. The quantity of urine

p ssed in twents four hours was 2 liters.

Hypodermic injections of morphine were given Following an initial dose of 3 cgm r cgm was administered every hour for six hours. A cure resulted.

SUMMORE DE PAIMS WD.

Lévy Solal and T anck The Pathogenesis and Therapeutics of Puerperal Eclampsia (N u vell réch ches pérmet les r la p th é ne et la thé pet qu de lé lamp pu rpérale) P s méd P r 9 3 xxxi 669

In the cases of ecl mpsia stud ed by the authors the organic lesions were inconstant. They seemed to be determined by the eclampsia or the preeclamptic state and constituted possibly a predisposing but not a determining cause of the crisis

In a series of e perments on an mals the mpectom of the series of ectimptic women caused death. From this sera two act we principles were isolated an anaph later principle causing convil one and a toxic principle with was less see these caused death the authors do set at the equivalent cheory. Co gulat on of the blood they believe is only secondary for if anti-congularists are added to the ectamptic blood and the normal fluid by is obtained or standard caused death (up to be the contract of the contract o

In the authors opinion the tox c principle may occur also in such conditions as albuminums acute

cedema of the lungs and insufficiency of the kidneys liver or endocrine glands. The anaphylactic prin c ple which causes the convulsions b longs in the class of antigens.

SALMATORE DI PAIMA M D

Dantin A The Indications for Vaccine Therapy in Puerperal Infection (Ess. 1 sur less nd at on de la vaccinothérapi des less fit oppu pé 1) Rev f ç d gynéc et dob t 1923 xx

Dantin reports a case of puerperal sepsis treated with a stock antistreptococcus vaccine made from organisms cultured from the blood of a patient vith puerperal sepsis and attenuated with iod ne wat recovery resulted ho blood cultures were made.

Poux and Ra c l Streptococcic Puerperal Sept cæmia Cu e (S pt ém p e pérale à streptooq es guen n) B ll Soc d b l i d g éc de

F 9 3 m 453
The authors report a case of streptococcie bac texema of puerperal origin which was successfully treated with antistreptococcus serium. Daily in pettons of ao c.m of the s rum were given for three days. Or the first day it can of "per cent of the state of the control of the state of the control of the state of the control of the control of the state of the control of the state of the control of t

NEWRORN

Pouget and Houel Imm di te Correction of Cranial Depre ions in the Newborn (Red se m t immédit edes i m t cra ns h l n e u né) B ll S d b i i d gy é d P

In three cases of very difficult labor a cranual dep e ion occurring at del very v as corrected immediately. In the first case the depression occur ed in the left parietal region. An incision s m de over it, and the bon raised by trephination.

and the introduction of a sound.

In the two other cases the correction wa made
by means of a strong suture needle such as is used
in a symphy sectomy. This was introdiced tangen
tially through the sagittal suture and the bone and
employed as a le er.

The three pat ts made an unev ntful recovery

S ATORE DI PALM M D

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Santaella R A Some Considerations upon Renal \[\frac{1}{2} \text{cularization (\lumbda lgunas on detact ne sobre \] as \[\frac{1}{2} \text{ taz \text{ on re } 1} \] \[\frac{1}{2} \text{ lder } \] \[\frac{1}{2} \text{ vu } \] \[\frac{2}{2} \text{ vu } \] \[\frac{2}{2} \text{ vu } \]

The author has studied the renal vascularization in forty cadavers. His findings he summarizes as follows.

- r The renal arteries originate from the aorta in a zone between the body of the first lumbar vertebra and the suprajacent and subjacent intervertebral disks. The width varies from r to 10 cm.
- 2 There is a collateral communication below the capsule and one branch of the spermatic arteries and another with the superior mesenteric arteries
- 3 The most frequent primary divisions are two anterior branches and one posterior branch 4 In general the number of divisional arteries

visible at dissection depends upon the size of the aperture of the hilum

5 The renal arteries are terminal in all their

- branches there being no collateral communications between them 6 The incidence of arterial anomalies is about 25 per cent Anomalies in number are the most
- common and of these the variety with two renal arteries is found most frequently 7. The inferior polar artery generally arises from
- th trunk of the anterior division and the superior polar artery from the posterior trunk

 8 The afferent branch to the glomerulus is t see the size of the efferent branch a fact which
- t ice the size of the efferent branch a fact which explain its great importance in renal physiology of The straight arteries probably come from the glomeruline
- 10 The ischamic zone of Hvrt form a septum which occupies th central region of the kidney but do's not completely separate the anterior and posterior regions of the convex border and of the pol's

Major R II Tie Influence of the Liver on Ph n isulphonephthalein Excretion J Am II A s 9 3 1 x 36

Virial experiments conducted for the purpose of determining the possible role of the liver in indicate in the rate of possible role of the liver in indicate in the rate of possible role role role role of the ro

These experiments show that liver tissue has a marked affinity for phenol wiphonephthalen. When the diestuff is injected subculaneously or intra venously it probably passes largel; through the kidneys and a excreted in the urne. If a consider able portion in the blood stream passes through the liver the latter may either hold it for several hours or destroy it this evplaning the marked diminution of the phenolsulphonephthalem output when no evidence of rend disease is demonstrable

LOUIS NEUWELT M D

Popescu Inotesti C A Test of Renal Function by a Combination of Alfalin zation and the Phenolsulphonephthalein Test (Are flunk tonspuelung du h Kombinatio vin Alkalibe li tu gi und Phenol ullorephthaleinp obe) Zin talbi ji nin Med 1923 bi 481

Rehn and Guenzburg recently suggested alkalım zation and the use of indigo carmine as a test of renal function. Instead of indigo carmine the author employed phenolsulphonephthalein. On the basis of forty case, he comes to the following conclusions.

The test is easily carried out and gives good results.
In the normal person the excretion of pheno ul phonephibalein after the administration of alkali begins in from seven to thele minutes and continues for from seven to thirteen hours. In renal in sufficiency it begins in from seven to twenty minutes and continues for from fifteen to forty five hours and continues for from fifteen to forty five hours.

Wonnexuru (7)

Cassuto A The Medical Treatment of Fyelit s

(Su) te as a med ca delle pieliti) P I lin Rome

1923 t s med 413

Cassuto outlines a course of treatment for ye clut, which he considers better than the administration of unotropin. It consists in the subcutaneous or intra muscular injection of graduated doses of nocializar san or sublarsenol he considers the latter much less tout than the former. Be immig suith an injection of 12 kgm he increases each succeeding dose by 12 kgm until 48 kgm are given at a time. This treatment brings about a diministration and eventually the cessation of all the symptoms and signs of pyclitis much more quickly than the administration of unottenping. Justic 8 knorr MD.

Wehner E The Surgical Treatment of Nephritis

(Die hung che Bhandlung der Neph ti)

Zt & f s of Ch 1923 x 457

The author presents in brief a peneral review of the entire literature. Harrison (1896) was the first to resort to incision of the apsale in imharmations of the kidney his theory being that the ten ion within the kidney his amportant cause of the

disease Edebohls in 1901 introduced decapsulation of the kidney

Experimentation has demonstrated that decapsulation is followed by quick renal capsule regenera. tion that the operation causes no morphologically visible injurious influence on the normal parenchyma. of the kidney and that no anastomosis worth mentioning takes place between the renal and perirenal blood vessels

Kuemmel designates nephritis apostematosa (sunpurative nephritis metastasizin by the blood stream) as a surgical condition. Usually it is unilateral The operative procedure must be adapted to the requirements of the particular case. In cases of miliary abscesses decapsulation is indicated whereas in cases of large abscesses and those in which the renal pelvis is involved nephrotomy is the procedure of choice. In extensive disease of the parenchyma pephrectomy is necessary

The following four groups of acute diseases of the kidney have been treated surgically (r) toxic nephrosis (2) renal eclampsia (3) acute nephrosis (acute glomerulo-nephritis following infectious dis

eases) and (4) acute glomerulo nephritis For toxic nephrosis Kuemmel recommends de capsulation but Pousson prefers nephrotomy

Klose has comb ned decapsulation and nephrotomy With regard to the results of surgical treatment in eclampsia there is great diversity of opinion.

In nephritis following scarlatina Kuemmel Schmidt Hardings and Vitanow found that de capsulation was followed by the secretion of urine and the disappearance of the symptoms

Kuemmel Volhard, Hir ch and Eppinger recom mend decapsulation al o for cases of severe acute glomerulo-nephritis

In nephritis dolo osa and hæmatu c nephritis both decapsulation and nephrotomy have given satisfactory results

The article is supplemented by a very full bibliog raphy

Hamatogenous Abscesses of the Stuckey L. Hæmatogenous Abscesses
Kidn y (Z r K s tik hæm t g n
b cesse) il i k Ch p g n bl si

After a detailed discuss on of the 114 cases of hæmatogenous suppurative nephritis reported in the literature the author reports three of h s own Two of Stuckey's patients were women and one was a man In both women the abscess of the Lidney de eloped after an abortion in one the pus focus was located in the lower pole of the left kidney and in the other the lower poles of both kidness were involved. In the man the abscess was located in the upper pole of the right kidney beneath the dome of the diaphragm and the condition was complicated by pleurisy with effusion on the right side

All of the three cases were diagnosed operated upon and cured previous to the development of a paranephntis The author favors operative inter

ference unconditionally

Payr E: Operative Treatment-Ignipuncturein Cases of Polycystic Degeneration of the kidneys Pathological and Chnical Observa tions (De oper ti e B handl g-Ignip nktu --ma h r F elle polycyst che Nee degenerat n Bem kung n ur Path log: und Khuck) Zische of Ch 1923 III 254

Payr has never removed a cyst c kidney surgically He considers a nephrectomy justified only in cases of severe persistent hamorrhage. All cases in which there are no symptoms should be left alone. In a certain class of cases however there is repeated complaint of colic pain and hamorrhage and in these undoubtedly palliative treatment is neces sary Such treatment must assure at least a tem porary amelioration and must be relatively harm less In Payr's opinion ignipuncture meets these demard

In the cases reported the kidney was e posed and the small accessible cysts were punctured with a small pointed galvanocautery point at white heat and the larger cysts opened crosswise or stripped of their coverings Caution is necessary in the vicin to of the renal pelvis and the vascular pedicie

The effectiveness of these procedures d pends upon a decrease in the intratenal pressure the in tact parenchyma is spared and the venous conces tion which causes the hæmorrhage is relieved Igrupuncture epresents a sort of halfway measure between no treatment at all and a radical procedure and makes it possible to control suitable cases for a GRAUHAN (Z)

Roysing T The Diagno is and Treatment of Kidney Stones Bas & up n Twenty Nine Years E perience (U ber D g os u d Behand lu g der N re st ne a f Grund 9 j ebrig Erfah ru g n) Zi k f l Ck 9 3 m 358

In twenty nine years Roysing has treated 716 cases of kidney stone. He disti guishes between primary aseptic stones stones which become infected and stones formed as the result of infect on Of hi 403 cases of as ptic stone 246 were operated upon With reg d to the etiology of these cases Ro sing states that he has noted that pat ents with so alled su gical nephrolithiasis seldom show symptoms of uric acid diathesis. An aseptic stone develops sud d nly and afte its r moval the kidn y sh s no tendency to form another Roysing believes that the condition may be the result of the gradual growth of an a d inf rct of the newborn or over safuration of the urine with uric or exalt acid due to a tempor ry illness especially an illness associated with fever. He has seen cases in which urate sto es developed from dry diet treatment and oxalate stones developed from the use of rhubarb root over a period of years

The congental unc acid diathesis causes only gravel and small concretio s which are passed with out difficulty the occasional apperance of pain and blood is fren due to uratic nephritis and penne phot s The latter condit o s the author has treated

very successfully by nephrolysis and releasing the kidney from the membrana propria Occasionally a uric acid diathesis may be unilateral only one

kidney passing gravel

Another diathesis phosphaturia which is readily recognized from the reaction of the urine and the white precipitate is sometimes confused with the unc acid diathesis because it al o makes its appear ance with dysuria and gravel during conditions of periodical depression Phosphatuma frequently causes the formation of large stones that become wedged in the ureter or develop into coral shaped concretions in the pelvis In four of Roysing's cases of nephrectomy for renal tuberculosis a pho phate stone formed in the other kidney and caused anuria The greater number of phosphate stones however are due not to a congenital diathesis but to a tran sitory accidental or artificial phosphaturia caused in many instances by routine treatment with alka line mineral waters Instead of dissolving the renal stones become incrusted by layers of pho phates

There is also a triple phosphatuma caused by the alkaline decomposition of the urine due to infection especially infection by the progenic streptococci the nucleus may be organic material from the inflamed mucous membrane or a urate or oxalate stone The author tenores two cases of cystin stone. Removal of the large stones was followed by treatment with distilled water (1 to 2 liters a day) The patients are well nine and four years respectively after the operation The first a woman 32 years of age had had a fixed non radiating pain since her twelfth year There was no hæmaturia but a large quantity of gravel was passed. The second patient was a girl 4 years of age who had had an attack of para typhus in her second year and continued to discharge paratyphus bacilli in the urine One small stone was passed In both cases the diathesis was unilateral the urine was acid and the stones were coral shaped.

With regard to the diagnosis Roveing discusses the numerous mistakes made in cases in which occasional or constant pain in the kidney with or without bleeding suggested nephrolithiasis. In this connection he mentions (1) uratic intoxication nephritis which is characterized by the formation of connective tissue and adhesions between the membrana propria and the perirenal fatty tissues and can be cured by nephrolysis (2) partial hydronephrosis due to aberrant vessels and (3) floating kidney with occasional kinking of the ureter

In the differential diagnosis between inflammation of the cæcum and nephrolithiasis (attacks of colic with hæmaturia) a sign of importance is Roysing s sign viz indirect pain in the execum on compres

sion of the descending colon

The findings of roentgenography are often sur prising Roysing has roentgenograms made of both kidneys and u eters and of the bladder as the condition is often bilateral or if unilateral may be dis covered on the opposite side from where it is be lieved to be In some cases the roentgen picture

may conceal stones or suggest them where they do not exist Oxalate and calcium carbonate usually cast dense shadows but even large stones of oxalate and calcium carbonate may fail to show in the roept genogram Triple phosphate and pure unc acid are only faintly visible in the plates. In 316 cases there were forty in which the roentgen ray did not reveal the stone found at operation and six in which the size and number of the stones were erroneously indicated Other shadow casting bodies at the level of the kidney or ureter particularly cal cified lymph glands may lead to a diagnosis of stone when they are associated with attacks of colic due to other conditions This occurred in four of the author's cases in two intermittent hydronephrosis tuberculous peri ureteritis and pyonephrosis were found in addition to the calcified lymph glands Particularly striking and difficult to explain is an occasional false shadow suggesting stone in granular nephritis with fibrous perinephritis

Of importance in the prognosis and treatment is the bacteriological examination of the urine taken under aseptic conditions from the bladder and wreter In 276 cases the urine was sterile and in 107 cases the usually benign colon bacillus was found nineteen of the latter the bacillus had disintegrated the stone and in thirteen had led to pseudo-mem branous to chitis with shell and gravel formation

As treatment the author recommends the drinking of 2 liters of distilled water daily. This is curative however only when the stones are small urate or oxalate stones not larger than a pea Roysing warns against the customary treatment with alkaline mineral vaters. In infected cases without obstruction the distilled water treatment is indicated to wash out the kidney and renal pelvis previous to operation It is of value also after nephrolithotomy especially in cases of unc acid diathesis. Cases of inoperable bilateral nephrolithiasis can be rendered operable by energetic water treatment

In 331 of 716 cases the water treatment was suffi cient for a cure In the remaining 385 cases opera tion was necessary There were forty four deaths a mortality of 11 4 per cent Nephrolithotomy was performed in 256 cases pyelolithotomy in eight nephrectomy in seventy six and ureterolithotomy in lorty five The respective mortality rates of these operations were 30 o 10 and 4 per cent The high death rate was due to the large number of cases in which the destruction of the kidney was advanced

In order to prevent renal hamorrhage following nephrolithotomy the author avoids the use of a sharp The stone or its presumed site is instrument firmly grasped with the index finger and thumb of the left hand and through a small incision in the membrana propria closed forceps are inserted directly against it the opening is dilated with the forceps and the stone freed from the tissues and The wound in the kidney is then drawn out sutured with catgut

The author seldom performs pyelotomy When the kidney tissue is greatly degenerated and reduced

there is generally a coral shaped stone which cannot be removed through a small shi in the pelvis or there is infection and an infected wound in the pelvis will lead to nephrectomy because of fistula formation. Therefore Rovsing performs this operation only in asoptic cases with a single round stone in the pelvis.

In cases of urcteral stones the site of lodgement must be determined. When a stone juts out into the vesical ostium it is generally possible to insert a sound beyond it and at the same time to dilate the pap lla so that it may be drawn out. If the stone is at a higher site the author brings the ureter outsi le the peritoneum through an incision from the erector around the anterosuperior iliac spine along the margin of the pelvis to the middle of Poupart's I gament The dilated ureter is easily found and is carefully freed to the point at which the stone is felt. If stones are pr sent also in the kidney the stone in the ureter is pr ssed upward and removed with the others by nephrotomy otherwise it is pressed to a favorable position fixed with the left index inger and thumb and released through a small longitudinal inci ion A bougie is then run up and down the ureter to test its patency and the wound closed with a single row of extramucous sutures The abdomen is closed around a cigarette drain No catheter is employed TRA TK (Z)

Ceccarelli G The Importance of Vascul r Neo formations in Cases of Reno Renol Suture (S il mpo t d il n of rmaz m ascol as d ut ra r no nale) A k ii l d kr 1921 V 44

Experimental research to establish the functional and structural alterations undergone by the kidney consecutive to ligation of one or both blood vessels has acquired particular importance with the development of conservative renal surgery. The author reviews such experimental work and reports a number of investigations of this own.

In dags Cecazelli created adhesions between the parenchyma of the two kidneys then formed vasicalist connections between the two organs analogous to the p produced by Letters to tween the kidney liver and spleen and them after adhesion had been obtained, attempted to determine what changes occurred in one kidney when the artery or the vein in the other was highered and the circulation impeded. The find ags of this investigation are summarized as follows:

t Union of the two kidness ithin the peritoneal cavity can be established without gre t difficulty.
The functional disturbances following this

intervention are slight and there i rapid and complete recover, from the les ons due to the suturing 3 Wh in the kidneys are approximated by the bleeding surfaces a nu ly formed tissue arising from the fib ous capsule becomes interposed and rapidly

separ tes them
4 Veryimportant vascular connections are formed
betwen the two kidneys which supplement th
adhesions formed in the peritoneal tissues there

fore renal function can continue for some time after injustion of the entire viscular pedicle of one side. When the vessels and the ureter of one of the kid nog as sectioned between two ligatures a hydronephrous of this side is formed. Very soon how entire organ becomes circlosure. If n one of the six tured kidneys both vessels are I gated, hydrone phrous does not develop after section of the ureter.

5 In kidneys sutured together after the ligation of both vessels of one kidney profound alterations occur in the first kidney but because of the development of an arternal collateral circulation sufficient to maintain renal function and nutrition the animal

6 In kidneys sutured together ligation of the vein on one part and success vel gation of the artery and vein on the opposite part cause a profound dis turbance in the structure and funct on of the first kidney, but the animal may survive and preover

7 The kidney of the side in which both blood vessels are I gated is reduced to a fibrous nod le in the midst of which only rarely are found small and more or less well preserved sones of par nchyma Because of the collaberard circulation this kidney called the properties of the collaberard circulation this kidney called the properties of the collaberary of the properties of the solid completely called the properties a more or of the solid completely carrhous by which in time it becomes changed to connective tassue

8 When both of the vessels of one s de and after a lapse of time the artery of the opposite side are I gated in sutured kidneys the animal may survive. This would probably be true also if the vein were intacted.

9 Animals with single blood vessels survive because of the de elopment of collateral circulation sufficient to re establish the functional equilibrium

W. 1. REENIAN

Billet II and Maisonnet J Spl nch c Anars thesia in N phrect my (L a thé e des spl ch niqu d n la él hr t mi) B ll t m Soc de h d Pa 923 h 55

The authors report in detain ne successid cases of nephretcomy performed under splanchine anast is a The e was no postoperatic shock the analgean was complete une was voided p omptly after the operation and reco ery was noompletot of com of per cent novocasine into the splanchine to the contract of th

It is necessary to amesthetize the op a tive route the kidney the pedic! and the adjacent layers The renal p enchyma has ! w s asory nerves I ain is easily el cited n the fibrous cap ule and the mucous! ned ren! cavities and by traction on the

pedi le

B llet nd Lab de by injecting 25 c cm of
methyl ne bl e in a ce tain ea on the reht s de in

ethyl chloride

cadavers infiltrated the perivertebral cellular tissue parallel with the kidney hilus part of the perirenal cellular tissue the upper pole of the kidney the suprarenal capsule the lower surface of Spiegel's lobe and in many cases even a portion of the diaphragm Injections on the left side inflirated the vertebral groove and usually the puncreas and sho ved a tendency to follo the descending colon Unilateral injections on either side infiltrated the splanchnic region and the solar plexus

The proper area for the inj ction is the fatty cellu lar strip outside the lumbar column at the juncture of the lateral and anterior surfaces of the vertebral bodies median to the kidney and the pedicle in front of the psoas muscle and behind the aorta on the left and the yena cava on the right. Even in thin persons this fatty bed is nearly 1 cm thick

To make the my ction a I auchet needle 12 cm long is inserted 7 cm from the me han line on the extension of the inferior border of the ty elfth rib as if to transverse the pati nt through and through from the sid The body of the vertebra should be reached before the needle has penetrate 1 9 cm Usually a carthage is encountered at a depth of about 5 cm If bone is not reached it o cm the needle is withdrawn and inclined a little more invarid toward the vertebra. Then, after the bone has been found it is slanted more for and and inserted fur ther in contact with the bone. When the contact grazing ceases at a depth of about 9 or 10 cm the needle is inserted 1 or 4 mm further with great caution. After a test has sho n that the needle does not withdraw blood 50 c cm of per cent novocame containing to drops fullrenalin a e immovable so as not to injur the gr at vessel

Anasthetization of the sup rficial I ver is 1 pendent upon periverteby I blocking of the ty elfth dorsal and fi st and second lumbar nerves an out liming anæsthesia of the upper en l of the inci ion and possibly of its lover end and local spealing infiltration of the line of ince on In matomic ! studie Boppe found that the upper thir l of the nephrectomy incr ion and especially the terminal zone is innervated by fibers of the posterior perio at ng branches of the tenth month and s m times the eighth int re stal nerv s

Chevassu emply loc I renal anasth s a only exception ily his r asons bu g a foll ws

As splanch i an esthe a is still un stain it may be nece sary to fin h und r gene al an esth sia an operat on int n led to be p forme I under loc 1 anæstnesia

Local anæsthe in s elim n ted chi fly by the The relat cly I rge dose necessary for renal anæsthesia may become toxic and endane r the function of the remaining Lidney The literature records many deaths from splanchn c anasthesia on Haberer has seen serious collap e

3 Injection of one ide may 1 if Itrate the entire solar plexus and exert a tempo ary effect on the r od kidney

a In one case of death from splanchnic anæs thesia Heller found only a pricking of the adrenal As a rule the adrenal is infiltrated and it is impos sible to prevent nuncture with certainty

5 Perinephritic sclerosis hinders local infiltration When there t serious disturbance of renal function only an exploration decapsulation or incision for py onephrosis is indicated These opera tions can be performed very quickly under general anasthesia induced with a weak dose (3 c cm) of WALTER C BURKET M D

Jianu & Postoperative Renal Hæmorrhage cr Obst 1022 XX 1 652 S to Gv

Follor ing a review of the literature on the patho genesis and treatment of hamorrhage following nephrotoms the author states that secondary hæmorrhage is due in the main to the cutting of intrarenal vessels an imfection causing the breaking down of the renal suture and the detachment of the clot To prevent it he recommends the use of several I shaped sutures including the capsule externally and the wall of the polyis internally These should be placed in two separate series one on each side of the nephrotomy wound close to its edges and parallel 1th them The livided kidney ti sues should then be at proximated in the usual manner and fixed by two or more sutures to the abdominal wall. The freedom from hamorrhage more than compensates for the loss of a small amount of kidney tissue due to compression

The results in a small series of cases have been very satisfactory LING OR ETHAN MID

BLADDER URETHRA AND PENIS

Myoplastic Operations in the Treat ment of Urinary Incontinence in the Female (Le pao mipl the claura dellic n tinza de nllad) i h tal di hr 398

The Wertheim Schauta peration and the Solms round ligament plastic have been discarded. The first could be applied only in the cases of vomen who had reached the menopause and were free from mort id processe of the uterus. The Solms method is easily execut d but does not give sol larity. The I ran operation can be done only if the fascia of the levator and strong (which is not always the cas in multiparous women) and when joined is able to re ist the pres ure fr m above

For the treatment of a cas s hich he reports the author devised a new method of myoplasty which he claims is very simple and much le s traumatizing than other method The technique 1 as follo vs

Longitudinal incisions are made on the anterior vaginal wall two vig nal strips are dissected and the urethra is dissected as far as the neck of the bladder The skin of the thighs is then incised for about 15 cm over the tendon of the gracili muscle beginning at its pubic insertion the gracil's muscle is expo ed follor ed to its insertion separated from ats fascu: and sectioned d stally at about 12 cm from its insertion being left attached to the pubes by its tendon. The t o muscle strips are drawn through the incisions in the vaginal wall and sutured together so as to raise the neck of the bladder as much as possible. The muscle strips are the nevered with skin strips taken from the region and all wound a c closed.

a e closed

This operat on proved simple and quick and wa
followed by a smooth convalescence. Sho tly after
the patient left the hospital she was able to retain

urine for three hours

Detachment of the muscle strips from the grachs is a much less serious operation than removal of the anterior aponeurosis of the rectus muscle. The nerves are sectioned but the nutrition of the strips

is not disturbed. The gradual rather than immediate return to nor mal continence noted by the author was observed also by Stockel The reason must be sought in the reduction of bladder capacity and the necessity for frequent exacution. With continence the bladder frequent exacution with continence the bladder intervals between evacuations then becoming longer intervals between evacuations then becoming longer.

Johns n F P Diverticula and Cyst of the Urethra J U l 19 3 95

Urelhral cysts are congenital or acquired According to Watt the acquired cysts are due to dilatation of the urelhra from urelhral obstruction by a calculus or sinctur perforation of the urelsh abscesses or cysts ruptung into the urelsh abscesses or cysts ruptung into the urelsh abscesses to cysts ruptung into the urelsh in states that in me oscopical studies of the fetus he found the diverticulum or cyst in one case to be a proliferative gro th of the cells on the und resurface of the urelsh a line to the cysts and considerative growth of the cells on the und resurface of the urelsh a line to the cases the origin as a dilatation of the ducts of Conperagiands

Solvanon reports an interesting case of a Cyt of the duct of Cowpers gland the large to it land on record. The patient a 2 year-old negro lover presented himself with an intracord tumor the size of a grope fruit which was fluctuarly but not 1 ght transmitting. The test cl s wer of normal size easily palpable and found on either side of the cystic mass sli htly above the midth e. The unn was uninfect d and the phys ale aminat on negative. The tumor had begun its growth in cally

childhood

In the exist on of th growth both sacs of the tunica vag nall testis which were clo ely afferent to the cyst were found to end in a small peticle extending into the posterior part of the current period the curve time should be curved to the continuous transfer of the midline. The conclusion was much that the tunit much into the curve time and its origin in the duct of Cowpe s gland on the

left side
The pat int was dischinged from the hispital as
cured thirt en day after the operation

GREER J TROM 5 MD

GENITAL ORGANS

S utham A II and Lin 11 E A Ti e Pathology of Neopl sms of th Test B 1 J S g 19 3

Of forts five testicula neoplasms seven occurred in impe feetly descended testes. One case of malging nancy is found in every 1 500 admissions to the male surgical service. In mall graincy it uma appears be of impo tance. The undescended testis which is atrophic and poorly developed exhibits well marked pathologic changes and is therefore predisposed to

mal gancy
A tumor showing macroscopically multiple cysts
separated by fibrous tissue is probably a teratom
sepecially if normal gland tissue is found spread o er
or at one pole of the cystic area. An encephalo d
tumor uggests a spermatocytoma Sacrona spears
as a firm homogeneous solid growth with localized
harmorrhagic extravassition.

The being tumors of the testis are teratoma and mixed cell tumors. The mal guant tumors are carci noma including sph ro dal cell ca cinoma sper

matocytom and chorn epitheliom and sarcona. The most common and gant tumor the sperma tocytoma ar ses in the germinal epithelium. Sa coma is e trenely rare most of the gro this so called being define tily spithelial in type and more correctly the spithelial of the properties of the spither did cell type is frequently found in the testis it probably arises from malg at metaplass of the epid ist or hypoblastic cell elements. I a teratoma Te atoma alth ugh hist logically being max form metastases of its ext mely lable to max form metastases of its ext mely lable to may be made the control of the contro

Kret chmer H L and Alexander J C The Su gical Path logy of Acute and Chronic Ep didymitis J (1 9 3 335

While the surgical treatment of facute epididymitis dates back seenty verson little has been reported concerning the ungical path logy of this or the chronic condition.

The uth s fort ses re teated by local appl atoms of large hot wet dress mgs est in bed support of the scrotum and h t sits b this but operation we perform d mined ately if fluctuats in was noted. Chron cas ere oper ted upon if the pain pers ted and the epul dyms remail ed tender and h d

Of the twenty sux ases of ute epiddym us twenty for we due to go orthose a was caused by tr uma and o was the sexif of d ly cattle terization in a c so of tab. The h tological picture was the same in all In vry sever ses the scrottum was cet and swellen. In twenty in ecce shuld was prent ! bis us x d tev food in eight encess and go occ in versolated in several In own instances the spec betwee the laters of the tuc ginalis was oblit attel. In

ten cases pus was found in the tail of the epididymis. In twenty two the cord was thickened

A leucocytic invasion was demonstrated in both the interstitual tissue and the tubules. In eighteen of the twenty nine epididy mes (three blateral cases) fibroblasts were present and in sixteen asses there was hyaline degeneration. Vid of the tases showed redema of the fibrous connective tissue and some of them an excessive deposit of fibrin. Engorged new capallares and enlarged blood vessels were found. In certain areas dianedesis had occurred.

In Advances; in wohing the tubules and intertubular toxic were composed of polymorphonuclear leuco cytes or lymphocytes or both Very few tubules were normal the others sho wed changes ranging from a slight ordema to complete destruction. In enty seven epidaly me leucocytes and plasma cells were found. Many tubules were closed by celema or I jugs of leucocytes. Pertubular collections of leucocytes were die overeid in mineten cases. A few cases showed an increase in the cosmophiles in the blood and later in the sections. In one case of traumatic e-policy justice, the section is not case of traumatic e-policy justice.

In the eleven cases of chronic epidelymits in which the duration of the condition ranged from six months to sixteen years treatment was sought be cause of pain In lour of the nine. buch were not due to gono them the condition was associated with chronic politics and cy nits in one with cystitis following prostatectomy in one with cratinoma of collowing prostatectomy in the chronic protestitis and seminal versulity.

The pre-formating feature vas the proliferation of the fibrous connective tissue Often this was associated with exdema. The walls of the blood tessels were thickened. In e.g. the case engogement vas noted. Abocesses in the intertubular tissue were mound may see seas and manufar abocesses of the tubu mound may exceed the tubu and the control of the c

cocytes were present in only six cases. The tubules showed various cond tono including on lems and digeneration a change in the epithe lium and a thecaning an liftpress of the tubular valls. Some I the tubules ere open while others is reclose in the contraction of the walls ordema or plugs of leucocytes and debn. I ractically all showed irreparable damage.

There wa no apparant histological difference between the chronic non venereal cases and those of gonorth raj origin Clath D. Licarrit, M.D.

Dillon J R and Blaisdell F E Surgical Pa thology of the S minal Vesicles J Urol 9 3 353

Lloyd in 1880 reported that he had drained the seminal excles through a perineal incision. He compired influemation of the seminal vesteles to influemation of the fallopian tubes. Robinson in 1892 contrasted the healthy seemen sace of the lower.

animals to the diseased seminal vesicles which he found in dissecting the human subject. In 1904 Fuller called attention to chronic suppuration in relation to systemic symptom.

The authors have divided the macroscopic changes into two types viz those which involve the extrinsic processes. The indications for operation

are as follows

r Cases in which there is stenosis of the ejacula
tory ducts or pressure on the ducts by an enlarged
prostate and the vesicles are large thin valled
and cystic.

 Cases which in addition to the changes men tioned shot extrinsic changes ranging from cedema of the perivesicular tissues to dense scar tissue

3 Cases in \ \text{lnch only the intrinsic structures} \text{are involved and the vesicles are thickened have tery little secreting capacity and are easily separ ated from the surrounding ti sues testles is indicated \text{Excision of the vesicles is indicated}

4 Cases showing the last stages of inflammation. The vesicles are thickened as in Group 3 and in some instances an atrophic band enclosed in dense scar tissue is present. The bladder pertinenum ureters and vasa are pulled into closer relationship Di section of the vesicles is difficult. The same vesicle may contain any of the intrinsic changes mentioned and those of the third type proximal to the ejaculatory ducts. In the author's cases drain age gave very poor results.

In the majority of the cases no spermatozoa were found Thuckening and stiffening of a vessicle and absence of gelatinous secretion after massage indicate a pathological lesson. A perivesculuits may persist after a vesiculitis ha healed. If the perivesiculities has not reached the stage of fibrosis and the vesicles can be stripped into operative treatment usually gives good results.

In the first two group microscopic examination shows the screeting folds flattened or shortened and the lumen filled with a cellular secretion. The columnar explutelium is flattened. In the hydro spermatocystic type the secreting folds show in places a florous thickening. The lumen is filled with places after the secreting folds show in the secreting folds show in places after the secreting folds show in places after the secreting folds. The secreting the secretion attached by indefinite floris. Round cell infiration may be present

In the non cystic types there 1 a round cell in ditration of the mucus folds with loss of cynthelium and the formation o granulation tissue at their extremities. These may join and shut off the under bying recesses. Febrous thickening in the walls may be found and there may be infiltration by round and plasma cells and fibroblasts. The capillairies are disard and engoging and a harmorrhagic excudate may the many capital may are considered and a hosting and the many capital may vary from nearly normal lobules to lobules obliterated by fibrosis and compression.

The danger of the formation of adhesions from infection trauma harmorrhage and epididymitis following vasotoms or dilatation of the ejaculatory ducts should be born in mind in selecting cases for treatment. Operation has often improved the sexual capacity.

In conclusion the authors bring out the follosing

The signs and symptoms of vesculitis and perivesiculity should be more carefully studied so that they may be of aid in the selected tre tment

2 V sotomy and d latation of the eja ulatory lucts are important aids in carefully selected cases 3 In op ative cases vesiculectomy is to be preferred to vesiculotomy because of the impossibility of draining all of the nected recess.

CEAUDE D PICKRELL M D

Macht D I and Te garden E J Jr Reju na tion Experiments with Vas Ligat on n Rats

J L 1 93 T 4

In as res of s n le rats was ligat on caused little or no change in crechrospinal activity or eight but was follo ed by a definite though trans it impowment in muscular c rdinati in muscular efficiency and g neral appearance. These experiments ere che ked by a control sense in the authors op n on the results s emed to arrant further investigation of the subject.

JOHN G CHEETHAM M D

MISCELLANEOUS

B rney J D The Urological Aspects of Hæmo philia B / M & S J 9 3 lv v 486

The author reports a cale of hæmaturi ac m panied by a pellenal hæmatoma in a hæmoph hise and ab tra is the hit to es of seven cases of hæmo philia with d'finte unity tract symptom b served it h' Massach etts General Ho intal

Sakar, v s ca e w that of a man who entre! th May achusetts to real the p tail for the te t m nt of hamatura in 1012 again in to g and g in March 102. At one time the bleed became so severe that it wan c s a v to open the bled team to severe that it wan c s a v to open the bled to the temporary that it wan c s a v to open the bled to be came so severe that it wan c s a v to open the bled to be came to severe that it wan c s a v to open the bled to be came to be compared to the compared to

As far back as the r cords are of value only forty two cases have be nd mit tel to the Massachusetts General Ho pit I for harm phil a All of the ubject were males "See ang e a definite histor. I urn ri trouble or hil simply meferable to the u nry tract. The condition o u de between the fift inth and fifteeth vars of 1; b i i nd ce was highest during earls adult!

A review of the literature revealed fee rept in hemophouses the unana symptoms Pe al hematoma is mentio edm r. Iten than hematoma to me writer in; as the symptom suidd see repain in the kd. yr gron which r. to like and more than the kd. yr gron which r. to like and more than the symptom of the symptom of

on the absence of hæmaturia with perirenal hæm

The differential d agno may be difficult Operative interirence is rively neces ary. The services of a practit oner who is acquaint d with the pathol ogy of the blood should be secured as soon as possible General Thomas Wid.

Pel uze P S Lour II R Scott G O and Oth 18
A Symposium on the Treatm nt 1 Gon 17 hora
Ticrop G 9 3 3 1 685
Pelouze emphasize the importance of use of

solution of the prop r strength and the utmost gentleness in their pilication. The intra urethral p essure should never be much gre ter than that du ing utnati n. Great pressure vill spread the disease and cause compl. ations.

If o ly the anterior urethra is infected the posterior urethra should not be t eated

Involv ment of the post for threthra 1 often without m ked subjects e symptoms and therefore m y easily esc p notice unless t is watched for year carefully

During an ac te posterio ur th itis I cal treat m t sho ld l st pp d

Instruments nic their should be p sed i to the acute), infi m di eithra onls for the clief of c te retent on of ur ne has long the go occ us; i p esent they he a plac in the eatime tof this elisignsh por three in which they used to cause a more acute ondition and ther his stimulate the 1 sucreact.

Mit th gonoc cci h d api en ed sounds of I to at employed t br k up nd caus th r opt n of ureth le date in ord to pr yent strictue format on Thy ho ld be p sed before the pat nti d ch rged seur d as they may serve to brig t light a latint gonococ alfocu thit would other set bo iooke!

No c e of posterier g no hea should be ponounc d cu ed u til it is proved the t the pro tate

d es not h bor the gono occ

Vassabe of the inflam d i o t te i apt t cause
abscesses nd l a permanenti damag d pus
n od g gland

M ge i post t hich till harb rs the gonoco cu ill lm t inv rably be followed by a recru fesc ne of the ethral di h ge co ta ni g the gonoccu

The p ti nt hold refr if ms tu lintercourse thout the use of cond mf the emonths

Loty dr us the illow g on lusions as to the pophylaxis and teatm nt of ute go rrh cul

1 Prev ni n ath r th n tre tment s the key note to the probl m This n essitat s the est bl h ment f prophylactic st t ns in the v us central z es of c t es

2 Early gen ral tre tment sh rten the pe od of the atta k les n t se erit nd p e ents complicat ns

3 Of the drug for internal admini tration alka line diuretics are the most important. The patient should be given also large quantities of v ater

4 Local treatment in the form of irrigations should not be resorted to until about seventy two hours after the onset of the acute attack. At first the anterior urethra should be irrigated and in the stage of decline the po terior urethra. The chief effects of the local treatment are the inhibition of the organisms and the flushing out of the urethra

Scorr and Pearson use the following method

in determining a cure in cases of gonorrhoea If the clinical signs remain absent the patient

is allowed a eck's rest from treatment and is directed to present himself for examination in the morning before he has emptied he bladder of the night collection of urine A smear is made of any urethral secretions present stained by Cram's method and examined for the gonococcus

The urine in two glasses is examine I macro If it i cl ar and free from shred it i scopically centrifugaliz d and smears are made from the sedi ment The smears are staine I with methylene blue and Gram s strin The pro tate ve icles and Con ner's glands are massaged and smears of the score tion are staine I with methylene blue

The anterior prethra is examined with the ure throscope to ascertain the condition of the mucous membrane and whether folloculitis is present or not

Cultures are made from the prethral secretions the material expres ed from the prostate and vesicles and the urine A specimen of blood 1 taken for a gonorrhoal complement fixation test

If all examinations prove negative the patient is instructed to live his ord nary life but to avoid

alcohol and a xual intercourse At the end of three eeks he again presents him self in the morning before emptying his bladder The ureth a is gently milked and at least two smears are made of any s cretion exp esse! Cultures are made whenever smears are taken. The urine is then passed into two glasses and the bladder filled with warm boric solution. The postate vesicle and Co pe s glands are thoroughly massaged and at l ast two smea s are made from the expressed secretion. The bladder is emptied into a third glass. and the anterior urethra 1 examined with the ure thro cope or stretche I by a dilator or a large sound When a soun I is used the urethra is gently ma saged against it. The patient is then given an intra muscular inject on of three million killed gonococci and if the previous complement fixat on test was pos tive a specimen of blood s taken for a second test The patient is told to report again the following morning before he has passed his urine

In the study of the urethral smears one slide is stanged with methylene blue If no pus or organ isms are present the second slide is discarded. If either pus or organism are found the second slide is stained with Gram tain and a careful search is made for Gram negative diplococci

If the three samples of urine are macroscopically free from haziness mucou cloud shred and fila ments they are di carded. When any specimen i not perfectly clear it is centrifugalized and two smears are mal from the sediment. In making these smears it has been found technically easier to use a fine pipette than a platinum loop. The smears are subjected to the same strining pro cedures as the urethral smear

One prostato vesicular smear is stained with methylene blue and examined for pus and organi ms If there are more than to pus cell per feld the nro tate is still infected and requires further treat ment e en though the gonococcu may not be the infecting organism. If organi ms are found the second smear a stain laith (ram stain and a earth is made for Cram negative diplococci

On the second day smears are mad from any urethral secretions present and from the centri fugalized urine and examine I as b for intramuscular injection of five million killed gon ococci is then given

Urinary and urethral smears are made on the third and fourth lavs

On the fifth day urmary urethral and prostato vesicular smears are made A urethro copic examina tion is made or the canal dilate I with a large sound or a dilator and the urethra and bladder are irrigated

with a 10 000 solution of ilver nitrate Urinary and urethral smears are made on the

sixth day If all te ts are negative for the gonococcus the patient may be considered non infectious

If the second complement fixation reaction is po itive the entire examination is repeated a month or six vecks later

ROTH finds no fixe I rule for the treatment of acute gonorrhœa in the male. In acute anterior gonor rhea hot sitz baths combat the anterior urethritis and often prevent its exten ion into the posterior urethra Gentleness as regard the use of non arritating solutions and irrigations and the frequency of treatment is ess ntial A 1 5000 solution of acriflating is best for irrigations and a 18000 solution for urethral injections

Local treatment aggravates acute posterior com

The most conservative treatment for epididy mitis is epid dymotomy Louis Gross M D

SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Dawson J W and Struthers J W Generalized
Ost lits Fibrosa with a Parathyroid Tumor
and Metastatic Calcification in Inding a
Littical Discussion of the Pathological Proc sees Unde lying O seous Dystrophies Ed
b gb W J 9 3 ns xx 42

The autho s describe the clinical pictue of a case of generalized osteits fibrosa associated with a parathyroid tumor and multiple calcareous deposits comparing the underlying I rocess in this cond tion

with other bone dystroph es

The histologic development as shown in their cases begins with an irregular ero ison of the have in spaces by hat ceress. The endosciel cells and proliferated endothed at cells fose to form grant properties of the control of the co

infolds and westure borne is a herome termoved by fibrous tissue substitution in Votone is laid down by metaplasis. The con extin tissue cell are trais formed into bone cells and their fibrils into escomeron it sue this process p ogressing until the bone has become replaced by a wide methed network of the control of the cell of the ce

Hem chages estile from rupture of cap listy toops due to slight in 17 and the homorth gc areas m; become surrounded by gro ps of gain cells and cell prol ferat b hich make them pratically ind tangu shable trom the so called my load sarcomata. Small cests may arise as the result of cruciatory of sturbances or retraction of the fib ous

or osseo mucinic t s ue

In the case 'eported th parathy d glands ere normal The tumor howe er was d agnos d's a simple papill ry adenoma composed of modified principal cells. The calcareous depo its occurred in those areas in which the tissue reaction was quite alkal nethel lungs stomach and k dneys—and was due probably to the pre up tation of c leum n a body fluid too alkaline to hold it in solution

The fundamental hatologic changes of generalized octor (bross are (1) bon removal by hale teriss) accurate resoon and recognized about early large terissic control of the control of the

The cou se of the disease is not uniform and progressive Rem so ons may occur the e a conting for the variation in the histological picture.

Rickets oste malacia osteiti del rmans and o test s fibrosa have in common a di turbanc betw en bone resorption and ppo iti n associ tel with a dystroph c proces. In rickets there is an arre ular and ex ggerated cartilage form tion the mesenchym ells differentiate into fibroblasts instead of o teoblasts and osteoclasts and form osteo d t sue which i late removed by thryps s a process allied to haliste e is. In osteomalacia there is r moval of the I me salts with resorptio of the decalcified tiss e follo ed by apport on of osteoid ti sue. In osteitis d fo mans the picture i much the same as that of ostert's fibros except for the pre nce n the latte of giant cell areas and cysts which the authors believe are e dista es in the proce s and due to the g eater tiss e react on Leontiasi ossea i regard d as a s milar pro ess lim ted to the face

Localized stetus throas presents no h tological differences from the generalized condition and has a piture strikingly hie that long designated as myelom as myelom as more or gruin cell myelom as myelom as myelom as myelom as the striking the substantial that the authors belive the three are sold as digital the substantial through the subst

The auth rs ume that the chang found in ostetits fibrosa are due to the act on of some unknown cu sal factor (toxic infective) e erted pr maily on the bone cill his heaus sthem to lose the control ver calci m in taboli mgi en them by the nar thytooth bormon M. L. M. M. D.

Bloodbood J C Bone Turn rs Benign B ne Cysts Due to Central O t lits F bros f the Unhealed Lat nt Type J Rad of 9 3 345

On the basis of a st dy of t o cases of b ne cy ts Bloodgood d aws conclusions particul rly n th regard to the diagnosis and treatm t W th r ga d to the etiology he offers no new theory stating only that clinically the con lition is a benign lesion and pathologically is a form of chronic inflammation. He divides the cases clinically into three grouns

Group 1 are the e of patents under 3, 2025 et al.

with a pathological fraction due to shall of a long
born at the site of order. The treatment in these
should be followed to the shall of a long
born at the site of the should be followed to
born at the site of the should be followed to
born at the should be followed to
born at the should be followed to
complete ossification in the ordinary bone evest
after fracture at dependent upon the extent of the
fracture and the amount of communition

The second group of case are those in which the cyst is found accidentally or during \ ray study for fraumy pain or swelling If subsequent \ ray examinations sho slow or imperfect o sification in this group a bone cru lung operation with exci

sion of the cist wall is indicated.

Group 3 are the cases of patients over 15 years of age in your other central bone lessons cannot be excluded. If fractic occurs operation should not be performed unless it is indicated by subsequent. Yay study if fracture does not occur an exploratory operation should be done and suitable treatment given accord no te the pathology found.

Bloodgood emphasizes the point that in cases of bone cyst the most complete healing results in the shortest time following a communited fracture spontaneous or operative (crushing of the bone shell) He reports sive Case S. CHESTER C. SENSEIDE M.D.

Tavernier Late Recurrent Osteosarcoma Radio therapy Secondary Excis on of the Tumor Which Appe red To Ha e Been Sterilized (R&c d e 1 rds e d un té sarc ma fratem nt d thé pique blaton c ndi : de la tume qui s mbl été té 1 sée) Lv k 19 3 x 373

upon early in 10 for the removal of a paintful tumor of the right arm. In December 10 ft the upper end of their bt arm sho ed a fusiform swelling hich pushed back the vessels and appeared to infitrate the operature sear. The X ray receled the properties of the transparent of the properties of the transparent to the properties of the p

The patient a man 66 years of age was operated

The patient s cond tion rema ned excellent until the end of 1922 when a hard movable tumor the size of a large nut appeared on the anterior thorace wall near the disarticulation scar. Over it was an abundant superficial venous circulation. The pain was rather intense. The tumor mass was distinctly visible in the \(\text{ray}\) rate adouther app in April and \(\text{Va}\) in pri elevel the pair caused the ds appearance of the collateral circulation and decreased the s.e. of the tumor by two this d'entended in the collateral circulation and the section of the collateral circulation and decreased the s.e. of the tumor by two this d'en additional treatments given in July and seven in September and Octob caused no not ceable change.

In December when the patient finally consented to operation the tumo was removed with a wide

margn and both pectoral muscles It vas found to be formed throughout by a faith, mas with fibrous prolongations and to show not the least sign of a formation sissue. Although three had been no hastological study of the recurrence before radiation the original growth had been so studied. In the author's opinion the recurrence was destroved by the radiotheral was a destroved by the radiotheral was not some contraction.

This case is notenorthy also because the pattent has survived air vears since excision of the periodical sarrom. Another of the author's patients who had this includes not fine four years after operation, but the proposition of the propositi

Mueller W The Effect of the Roentgen Rays on the Bones (Der E nfi der Roe tgenst ahlen auf d n k chen) M nch m d ll ch s l 1923 lxv o8

The effect of the roentgen ray is everted chefly on cell undergoing mitosis Therefore, in finished bone no effect is to be expected even following in tense application of the rays but in the epophy seal lines in which the cells are in active mitosis the effect is marked Great sensibility to the rays in cartilagnous zones of growth has been demon strated experimentally.

It has been assumed that the rays evert a stimulating or an inhubiting effect according to their strength. The growth inhibiting, effect has been demonstrated by numerous experiments (Petthes Recumer Isebner Dieterle Foosterling Segale and krukenberg). The growth mibiting influence of inhibiting effects the doubted but to date a growth formulating effects been demonstrated in normal and growing bones even though it is possible theoretically. With regard to the effect of the roentigen rays on

bose regeneration (fractures) on scenific and so the vett Cluzet and Dubreni pomnon differs Sal vett Cluzet and Dubreni pomnon from a number of experiments so rabbits the author concluded that there was little appreciable difference between rayed and urrayed bone and that if anything the preture suggested an inhibition of regeneration even when small doses were used Voscieuter (Z)

Pitzen P So Called Obstetrical Paralysis of the Arm (U ber die o-gen nnt Entb d ngslach mung des Arm s) Zisch f il p Ch 19 3

Since the time of Duchenne and Erb the term obstetrical paralysis has been applied to paralysis caused by injury during labor to those muscles which accord ag to the view of Erb are electrically excitable viz the deltoid bucps internal brachial

infrasp natus it re minor and supinator longus and brevis. The arm h ngs loos ly at the side and is ninw rdlis rotated, at the shoulder joint the for arm is extended at the elbo and the hand is pronated. Atrophi o urs but I turban es of sensation are rar.

The same position of the arm may result also from other c uses su h as congenial lu atton or subtraction or injury to the capsul of the shoulter during birth flugry to the joint c spule may cruse listerion or effu ion o my be as octated with s par to no of the epiby. T aumatic effu on may lead to a s condary lur tion or subluxation following relaxion of the pop to trapsul

Austrate has demon traffed the primary train matter furstion of the hould recussing a primary train of the head from the articular surfaces of the about of the head from the articular surfaces of the about of the articular surfaces of the about of the articular surfaces of the about of the articular surfaces of the about occur at birth. The force ne essure is og great that would lead to a sep articular of the epiphy or a feature of the shift. Separation of the epiphy or a feature of the shift. Separation of the epiphy or a feature of the articular than the shift of the protection o

occur al o in other i junes Separation of the epiphys south delo ation can be stable hed only if the head can be palpated in the fo sa next to the project ng end of the diaphy is or a difference in the length of the arm can be made out Dissection of th muscles that a e in crted in the separated epithy 1 show that a sepa ated p physis v ould n e rotate outward unde the influence of muscular action at the mot it ould otate inward. After concern the diagnosis of separation of the piphysis int a pa t n can be m de nly if it an bee tablished that the piny i has an abnormal relatio to the diaphysi rotation f the arm and th position of the sublu a tion can be bett r explained as bing due t al injury of the joi t can ule occurring at the same time In osteo art cula injuries the 1 nt capsule plays the most impo tant rôle i suppo t ng th arm In conclu ion the author r ports the case of a to year 11 box ith congenital posterior sublu a tion of the head of the humerus due to improp r developme t of the 1 int. The roentg n ray plate howed ab ce of the c ll m c pulm nd a e e ed r litto sh p of the fossa and the head H CKE B CB (Z)

Ol Immediat M bilization in Screwed Fracture of th Ol cran n (M bl sat immediat d les t d lolé due é) P dd P r o j 1 68

Oh her reports a case of f a ture f the olec anon ith alg uppe I agment Underlocal masthes a hole was dill din the fragments a daing slender ood screw inserted. The ki was then closed

t ghith and the arm immobil zed in sin, to forty eight hours. Thereafter more ments of the above sho t of pans are encouraged. Within eight dass practically full most in was possible and at the end of tents the cure pp red to be complete. The results in this case surpassed those obtained by any other methol the author has used.

Immediate mob lizat in is suggested at o for comminuted factures folloying contation of the bone fragment by an enerching suture p ssell through the taceps tending a lithe uling a directored by stitches through the fibrous cap ular t sue

K.E.

Hauck G Rupt re of th Dorsal Apon ur is n the Fir t Int rphal ngeal Joint and a Contribution on the Anatomy of Physiology of the D all Apon rosis (De Ripterd D salpoon m I terbit giglt k gen B tg Naal mound by is gib D tell r l, b f dir Che 193

The author rep is three c e of rupture of the i al aponeur s on the fi t interphalangeal art c lation. The mot import at chair I sign of the condition a more or less marked flexion of the midll j at with over at a ion of the t rm a ! As a rul the fir t nterphalang I joint shows a ling and tend en ss on pres ure in attempt to cor ect the faulty finger position acceeds only in the pro imal Phalant the oth r phalan es offer elastic resistan If the potent phalant t pas i els o er extend d n th proximal joint s ght et e b ndin of th term nal phal nx i po the las effex on of the proximal phalex is orly moder teleret cted. Ho er fithe middle joint is flexed with the primit in tas i making a hit a tile flexion of the termin (again possible to a slight digree. If the injur ditt gir is acti elv ext nd d slowly afte th fit; clo d t ght o er ext n n of th term nal phalanx t kes pl c while th fist nd second joint estill fl dat a right angle Then when the m ddl 1 int is il x d at an an le of bout 130 d gree its e t no n is inhib ted un be almost nt 1 o e come The unhibte with accept c

At operation in the a thor cases it was f in that the j int had be a opened by cross set at the point 1 cap ule ne it n and the both lateral po turn of the p u.o.s had lid off ship volume and. Between them th. jit jrotrud dirth the cross tear. After extension the seportion were replied do al. a diand fixed in the ripr per place and the capsult tear in sutured. Immobilished in the sent set of the sent the

In the differential diagnosis that is danger of confusing the condition with might did to in the author dearth of the nation and physology of the disal apon urosis in dial on the basis of the lut returned the own in tomac litudes. In Haucks opinion the linguistic supports the disable that the d

explained on the basis of the anatomical and physiological peculiarities of the extensors of the finger esq cally the dorsal aponeurous. This a umption he believe is confirmed by the functional defects note I in a use of isolated severance of the exten or tendon on the dorsum of the proximal joint.

In conclusion Hauck surge ts that in case of ulnar paralysis extension of the terminal phalans smight b facilitated by a prosthes; holling the hand and provimal phalang of the finger in slight fiexion during dorsal motion [Leg.k swoth (1)]

Aubry and Pitzen TI e Roentgen D agnosis of SpondyHtic Ab cess (Zur Dag le po dyltich the e im Roe (gent II) 73 h f sthop Ch 923 l 47

Spondylute abscess of the ervical vertebra can be recognized only in lateral pictures. Tuberculous and osteonyelute ab e. scannot be differentiated roentgenologically. Tumors and gummatous node increas the tran parency of the shido s of the vertebral bours.

In the thore or port on of the sp m. 1 ce s. 7
n ows the sar for med as the re ult of the spreal
of the die se and the rest tant of the surrounding
t sues. The differentiation of the shad was often
the thorn the shade of the shade of the
through shade, and lung tumors is not difficult
thoracte vertebre the normal aports after
straight and extend downward to the left of the
spine. The shadows of absce sea are seen on both
sides and unlike the shadow of the aorts do not

become less dense farther down In the abdominal cavity abscesses usually spread in the liopsoas. As compared with the shadow of an ancurism and that of the right auricle, the shadow

of the abscess is denser

An intensification of the shadow, hich the authors
hive not d in tuberculo; they ascribe to compression of the bone which is relatively poor in
c bruin

WASERTE DIVER (2)

Wohlgemuth k Acute Ost omyel tis of the Spine (B tr g z klnik d kut n Wirbl t my lt) A h f kl Ch 9 3 x 554

The ertebra are involved in only pe cent of cases of a toencielit. (Hahn) Vollmann colle ted e ghty seven cases of o setemivel us of the spine and Statil cleven other an i added three of hon Mcchniescu Braunhich Roenlurg Dudden and Kessler added one ca each Frankled tepo tel four cases. To these tro cases Wohlgumuth add three moe

Case i reported by the author was that of a 13 year-old gril Three weeks before the patient entered the hospital she fell during symmastic series as a dhereafte complained of pain in the streak right of the pain of the streak right of the streak

During the next few days swelling of the joints app ared. The leucocyte count wa 10000 and the erythrocyte count 5,0000 Culture of the blood yielded staphylococc. Death occurre 1 on the fifth day after the pitient s a limision to the hospital

Autopsy ricelled complete suppurative necross in the soft parts which communicated with the simulaciand and pus in the spinal canal and pus in the spinal canal after as the level of the seventh thoract certebra. Transverse ection of the spinal corf ishowed nothing abnormal The sitem was septic. Both Lidneys showed in

merous small superficial abscesses

Case 2 was that of 1 44 year old man Fourteen lays before the patient's admission to the hospital he had had a whitle s inci ed by a physician day before his a lmt sion pain began in the cervical region Examination revealed stiffness of the neck an I pain on attempts to rotate the head. A roent genogram of the spinal column was negative. The tonsils and pharanx vere red and filled with our Five days later paresi of both arm de cloped. The leucocyte count wi 14 000 Two days later a longitudinal inci ion in the I ft side of the reck after exposure of the cervical spinal column yiel le l no Two weks later a roentgenogram of the fith and sixth cryscal vertebra sho ed a blurred trans lucent outline At the end of a month there wa marked ædema of the right po terior velum palati as far as the entrance to the larvax Puncture

vielded no result Death resulted one week later Autop v revealed o teomyelite of the fourth and fifth cervical vertebræ and a prevertebral abscess

CAST 3 as that of a boy to years of age. Fourteen days before the patient entered the host tall he had an atta k of save e beadsche and ten days prevouly tell while currying coal straking the schum. Since then he had had pain in the back Viav 21 he was admitted to the hospital in stupor H temperature was 300 degrees C and his pule

The abdomen as distended and the bladder sa at the level of the umblues. Two thousand cubs centimeters of urine ere suthfacts thousand eter. The leucover count was 20 cool Stapholocco were found in the urine. Intravenous injections of virand were followed at first by improvement but later the condition became worse. Operation per formed June 8 showed osteomyebit of the fifth lumbar tert bra. The pus contained staphylococ cus aureus. Death oc urrel Jun. 2.

Osteomyel its of the spine I ke osteomyelitis of other parts of th skeleton is especially a disease of youth. The lumbar vertebræ are attacke I mo't frequently, the thoracic vertebræ next most fre

quently and the cervical least often
In the etiology the hief rôles are played by (1)

previous infection which floods the body with bacture and (a) some factor—usually trauma—which cause the bacteria to lodge in the spinal column I yogenic or, anisms are I resent in the spinal cord in many general and local infections but may cause no particular damage

The fiagnos is very difficult often impossible The roentgen picture is sel tom of at 1 In the di Teren tral diagno is general infection, must be considered The leucocyte incre se in osteomy clitis differentiates it from 13 pho 1 HILLER Y (Z)

Parker L. II Actinomycosi and Blast mycosi of the Spine J B - Jo 13 1 1023

In seven ca es of actin mycosis of the spine re r riel in the literature and one unr port I case n or mor of the f ll wing con litte ne were I und at aut pay eros n of th vertel ral bodies c n us legenerat n nis ftening f the bod es an I spin u. processes yellow absces f rmati n involving the bone cavities fliel with granulati as I'm of periosteum absces and f tula f rmati n alon the spine and deformity of the stine depending on th amount of Il pse and I tru to n of the vertebral bodies. I rem one to light vertebræ were affecte l and the lease recurred at various points bettern the upper the racic vertebrat a 1 the sacrum

The author r ports a case f actinomy cosis of the spine in a 22 year-old man who con ulted him because of plou surule t 1 sch rge from the site of an appen lect my performed six m nths r reviou. I occurre I six weeks lit r I few days bef re death there was loss of contr I of the lower extremities

but n lef rmuty in the lack was not I The 1 sth 1 gi 1 report 1 a 1 rge abscess surroun 1 ing the some and extending I wn to the inguinal region. The si les of the bolles and the trans rice proces es of these ertebræwere exten ively erof l ten ling through the lo lies and large granul ting areas penetrating into the dural canal. Microscopic examination lemon trated typical actinomycotic changes. Occ simal colonies of ray fungi were found surroun led by an inflammatory zone

The treatment of actinomychis nists in th a lministrati n of large loses of potas um 10 l d n i operati e ir atment f r the absces es and the

orth peli on i tion The prognesis is gra e a the spinal infect o

secon l. rv to a focu | bewhere

I can of flast my ass of the spine reported by the author wa that of a man at years of age with a hi tory of e re pain in the stomich exten! around the chest t the I k and almost con tant rigility in the lumbar i g on and to the left of th tenth d real vertebra. The Vrav sho ed a den e hadow poste the fifth and sixth dr I vert lræ but littl bon change. As tuberculosis of the ap c was su pected by e was appled and the patient placed in th r umbent no ti n

Two months later the on lition became vorse with severe pain about the chest at the fourth r ! and paralysis and loss of sensation bel umbilious The \ ray then sh wed ma ked mottling of the fourth dorsal vertel ra and fracture of the neck of the right fourth ril The patient del December o 1918

Autors) I vealed to the left of the fourth with and sixth dorsal vertel to an abscess containing grayth pus The disease had caused extent e destruction of the vertebral bod es fracture of the right and left fourth ribs and pres ure necros of the spinal cord. Sumerous hard nodules scattered through the lungs proved to be blastomy cetes

PRANK C M RPHY M D

Wald netroem II The E sential Type of Lora Plana (La f rme d finit ed la cous pl n) L 19 3 x 393

The Lagnosi of essential coxy plana m ms le with certainty only during the period of eyo lut on The author re-examined twents two pa to fits t not whom had reached the age of 20 years While the di rmits var es in legree flattening of the head neck and ac tabulum is common to all

From the paint of vi w of deformity Wall n stroom d vil's the essential t pe of coas plana int

the following thre griups

(roup : The head and neck of the femur ar 1 st not from one another and from the gre ter trochanter Croup 2 The antero-superior part of the head

of the f mur is close to the greater trochanter. The po tion of the he 1 vi wed from the sile at pears g eath, enlarged and re t outs de the articulation The upper ports n of the neck is not 7 bl

(roug 3 The art cular surface of th head rough and m re or less excavated The upper pol

of the head is con cal and ordinarily situat d lower than the greater trochanter

Lo t I D vs MD

Nu baum A The Blood Vessels of the Lower and of the Femur and Thir Rel tin to latt logy (t be di (f esse des u t enles u dihr B h gneur lath tgi) B / H Ck 9 1 18 45

The work high is by lunon series of e penments carrie lout by the a th ron an m Is an lupon anatomic I becim no prepared in a spec i manner is livile lint two parts. In the first part the a thor I can es in d t il the an t mical r lations of the vascul r supply of the lower ni of the femur ar i the knee joint Il found that wh n the knee is bent the poplited art is moves back a consider ble I stance an I that the efore in operations u dertak n from the fr at thro gh the flexed joint there r r lativ ly little lang finjuring this vessel if the relate n hip in the holl w I the kne re normal

The knee art r art ing from the popl te larters showe tensive variation in their course and an tom al relations They at into no ana tomoses with the lower arte i s of the Luce with the except on 1 the art ris genu m t h Connects as oc ur only through the articular br niches and these se m to be equ. I in importance with the I rger bone arteries In its terminal t n i n which run p allel to the cuttilage-co ered o hles the arterial plexus o the

bone hes under the synovial membrane covering the bony portions. There are very few meroescopially wishle connections between the vessels of fattor which appears to be of importance in the movement of the synovial membrane on the bone. Consequently the vessels in the lower end of the femur have no relative to those of the joint capsule except their common origin. The author does not agree with the vessels and and schedules and trinks in the spon property of the portion of the porti

With regard to the vascular supply of the epiphy sis as compared with the metaphyseal and diaphys eal vascular area of Lexer Nussbaum states that the cartilaginous and bony stages must be considered separately. In miants practically only true end arter es are found whil at a later age all epiphy seal arteries form an extraordinarily close vascular plexus Unlike other investigato s Aussbaum found no anastomo is between the epiphysi and diaphysis as long as the eniphyseal line remained but in the periosteum numerous vessels ran across the epiphys eal line from the diaphysis to the articular portion At a later stage the entire epiphyseal line of the lower en l of the femur 1 devo d of vessels except f r the arteries mentioned as cr ssing it The artic ular cartulage is also without vessels

With regard to the relations of the capillaries in the bone areas examined nothing new was discovered. In the second part of the article the author dis u se the relations of the vascular supply to patho

logic I processes in the bone Exclusion of the nutrient artery by ligation caused no perceptible changes in the bone. In the healing of fractures no unifor ble effect upon the callus formation resulted from tear of the nutrient artery unless the period of the processes of the period of the processes of the period of the period of the processes of the period of the

from tear of the nutrient aftery unless the perit al vascular plexus the source of collateral paths extensible injured.

On the bass of his findings the author is inclined.

t rest the theory that loose bodies in the joints in obtain joint lesses are due to embole occlusion. I that it it trunks On the other hand he bit what the wide shaped tuberculous focus in 1 g bone. The to be referred to larger or smaller in min it go dustreadous embola or a tuberculous arteria. The larger embola arise from foct in the pulmon revenue to tuberculous sprocesses which have been supported by the property of the pr

Parker C A The Pathologically Flexed knee

The pathologically flexed kne is a veak knee unless it is firmly ankylosed and if the deforming process is inflammatory it usually causes pain in

walking The advantage of the extended knee is that it will support the body weight even if the limb is pyralyzed. In arthritis in which movement is reduced the extended position gives the greatest length with the least limp. Four cases are reported

Case: The patient was a woman of years of age who had had an infected swollen knee for four years. There was flevion of 90 degrees with veriently movement. The was severe on forced move ment. The \text{Var} showed no marked changes in the contour of the bones. Under anæsthesis the knee was straightened and placed in a cast. The reaction was slight. The cast was left on for a month and then replaced with a removable cast to protect the joint against injury, and to prevent the return of the deformity. The patient was then able to walk without crutches.

CASE 2 Thi was a case of osteo arthritis of both knees which had been present for eight years and caused flexion and pain Several operations had been performed to eliminate the focus of infection. The author corrected the flexion by means of a series of casts. The patient was then able to walk.

long distances without aid

Case 3 The patient was a woman 57 years of age who was barely able to walk with crutches because of flexion of both kines. The X-ray showed e tensu e crossion of the articular surfaces. The kines were straightened under auxisthesia and placed in casts. Liter temovable casts were applied when the patient walked without and their the treatment the patient walked without and

Case 4 Thi was the case of a man 64 years of age whose left knee was flexed at right angles Under anasthesta the knee was straightened and a cast applied Following the use of a series of casts

he was able to walk

In the treatment of pathologically fiexed knees prevention of the deformity is very important The use of fixative measures in complete extension for practically all acute or chronic inflammatory affections of the knee joint is a well established principle

In non tuberculous types the author generally uses force under anæsthesia. When anæsthesia is contra indicated he effects reduction gradually

In some ca es correction of the Ence is followed by motion. If the ankylosis is bony it is due to a old tuberculosis and requires a bone operation for exerction. This is best done at a distance from the joint and in most cases should consist in retion at of a wedge from in front of the femur just above the epiphyseal line.

In the author's opinion it is not necessary to have the knee flexed at 10 or 20 degrees the limb will be stronger and less irritable if the knee is extended FRANK G MERF IY MD

Koehler A Typical Disease of the Second Meta tarsophalangeal Joint Am J Ro nige of 1923

About seventy five cases of Koehler's disease have been reported in which there was involvement of the articular surface of the base of the proximal phalanx of the second t e the metatarsophalangeal joint the articular surface of the head of the meta t real the head itself and the entire distal half of the metatarsal. The changes are as follo s

The circular shadow of the articular surface of the proximal phalant in the roentgenogram made in the antero-po terior plane becomes irr gular. The joint space then usually becomes broader than norm 1 the condition thus differing from the arthrit des in which this space becomes narrowed. In the third stage the irregularity of the joint space becomes asymmetrical the fibular half sometimes appearing double the tibial half. I ater the articul r surface of the metatarsal head develops into a regular knobs and defects. In cases of long standing there are circul shadows on the fbular aspect of the joint varying in size from that of a pinhead to that of a pea. The head of the metatarsal is shortened in its distal third and the entire d tal half of the meta tarsal i definitely increased its circumference resembling the pr vimal half and involving both

the medulia and the corte

The subjects whose cases are reviewed ranged in
age from 10 to 40 year. Two thirds of them we e
between 10 a 118 years and probably in all cases

the disease o sgnai d dur g the growth per od. Complaint is usually made of pain over the affected yrea especially during weight bearing locom tion and eve sion of the foot. The area invol ed is tender on pressure and the soft parts to hove it are swollen. In two of the author's cases the \times ray sho ed a bowing of the epiphysis toward the dorsum of the foot.

Koeller emphasizes that this condition has definite characteri ties differentiating it from characteri ties differentiating it from characterities the experimental from the content that its With egard to the pathol gy he reviews the study sof Fromme and Cahen Brach who found norcosis fibrous ma row and it sue resembling granultion tissue thicke ed cortex and well to eserved earl lace.

Because of the slow is a tand occasion I bilateral occurr in e of the condition Koehler attributes in to repe ted be rely preptible mechanical injury Fromme b h ves the disease is an osteochondritis of the nature of late rickets and regards Ferthes d eas of the hip Schlatte is disease of the thuslappin and the navicual disease of koehler as similar

The e rivite m nt shoull con st in rest in red co stitutional it ment baths and the applic tion of poultice heat mass ge etc. I well fitt g shoe th an nsole huld be worn method ha e failed and only n thee ses of pat ents beyond the growth p of

RD HSR CR MD

A h u en G kochler a Disease of the Meta tarsophalange I Joints (D kochl rs h E k k ng d M t tarsoph I g Ig I nk) M d kl 9 3 56

Axhausen has seen f urteen cases of Koehler s dise se of the metatarsophalangeal joints in the course of a year The condit on involved the second or third joint of the middle toe and its duration ranged from five weeks to four years

The lesson occurs more frequently an the female than the mile and its highest incidence is between the tenth and thritteth years. Usually the e is no thatory of trauma. At first the reentigen tray p cture is negative but in the sec nd stage a flattening and condensat on in the heads of the boins are noted. The shalts of the metatarisals then become thrickned deformments the picture I that of severe atthints deform metatarisals.

In Anhausen's opinion the c ndition is primarily a necross of the epiphyses due to complete inteference with nutrition caused by mycotic embolt the cartil ge rem ining suppled. The dead epiphysis is rebuilt but soon a pressure fractu e results and because t occurs in d ad bo e cannot heal

Axhausen discusses the ch ndral and osseal types of arthr tis deformans. Lochler's d sease he regards as a typical example of the latter.

In advance I ca es operati e l'eatment sindicated In ea ly cases Axhausen places a transverse block of wood on the sol of the shoe (the Bradford I dder rung) to decresse th load pl ced upon the he d of the metata sal bones Tinal j dgement on this conservative meth 1 of treatment is reserved for the future

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Le r E The Normal and Pathological Fate f Bone Transplants (U b d m l undp thol gn h l g he d k och t pl t te) 4 f h g S d q 3 lvt 64

Th author holds to the b lief that metaplasis of connective tissue do a not play a part in the pro ifertito of hone t aniphanted into othe hone of a tra-splant per of turn. In receivary. This gives rise to the osteoge c c lis that invade the lacunariansl of the resorbing t an plant bridges fissures and spaces bet en the ends of the b es and serve as a d finit burne ag instinguovanj young viscul r

Resorption of the os us t sue in a tran pla t is normal ph n me n that c he f llowed by the roc tgen r s Sgn f th process r a cle ring of the shad w of the tan plant a fi L ess a d erodel appe ance I the bo der and co t urs a dening of the lacunar nal and fi ally when a pseudarthr sis results the disappear n e of the shado The stag of res ptio or t opby 1 mo t mark d from the 1 th to the te nth week the shadow of the g ft then becomes denser and de and with the resumption f fun ton t kes on the contour of adjoining bone. Proble at o a dire sorption may occ at the sam t me but up to the fou th month the l tte usually pr domin tes t only of the

Abn rmally rapid and ext ns t ophy of the osseous tissue of a transplant f llows a y process

that favors the ingrowth of viscular connective th sue viz the presence of open spaces due to care less apposition of fragments the absence or death of a protective periosteal co ering the presence of infection and too early motion

Only bone pins completely covered with perio teum will effect arthro lesis successfully partially covered ith periosteum soon become resorb d as the result of the inroads of connective t ssue around the joint spaces

WILLIAM P VAN WAGE E M D

Kirschner The Correction of Bony Deformities (D) to gleich k oech Def m taet I mml d d tsch G lls h f Ch 1923

A deformity of consilerable extent cannot be corrected by simple osteotomy Complete sub periosteal removal of bone and its re implantation in small pieces 1 an operation not without danger Kirschner exposes the bone over a wile area and without drawing off the periosteum makes several osteotom es without causing complete solution of The bone may then be straightened readily and cen olidati n takes place quickly. This proce lure has prive I of value also in pseu larthrosis and 4th the act of nail extension may be employed for the lengthening f bones. Fat emb lism has not parrease

LEXER (Freiburg) alled thente n again to the fact that the the f require for Local hading in fractures 1 carly and exact reduction. For fractures that have united poorly for fracture of the pitella and for fractule with 1 by tion operative treat

ment come un ler consideration

HUEBNER (Berlin) reported on 115 ca es of fracture of the neck of tl femur in thirty three cases union dil n to cur Two requires for uccessful results are (1) exact apposition and fixation in over corre t n and (2) idence of weight bearing Weight be ing b f r six months may cause poor r sults

Von Caza (Cittagen) state I that the influence of hyperton c olution on the tis ues is lependent not upon their hypertonicity but upon the ions. The cations in particul r play a roll These form a ontinu u s r fr m I thium sodium on the one hand to calcium magnesium on the other and letween th tw nd member th re 1 a certain antagoni m Hypertoni hum chloride lution applied to the surface of a wound suses hyper trophic granul tions of cal jum chlory i solution is applet to su h urfa e th gr nulations I appear and there a rapid formation of p thelium

Vox by FLSBIRG (Vienna) c ll Lattention to the importanc f stretching the muscles in the treat ment of fra tur s In exten ion he employs Schmerz

lamps and Braun's universal plint

KLAPP (Berlin) Iemon trate l hi method of tre ting tractur of the r d us wh ch differs from the ol i method of "chede Vit r exact apposition the f re rm is placed in a pl st r-of Paris cast for three we k th t gers being I ft free Klipp believes

that functional treatment begun too early is di advantageous LEXER (Freiburg) is opposed to the u e of the

plaster of laris cast KRAUSCH (Berlin) state I that he is partial to the

u e of the Steinmann nail Hackenbruch's clamps he has not found successful He has used wire exten sion only in tractures of the fingers. He treats frac tures of the ra hus without a plaster cast. In the most unfavorable cases of fracture of the neck of the femur he has removed the femoral head

COETZE (Frankfort) recommended and demon strated a horseshoe exten ion apparatus he devised which turns in all directions and gives good apposition in fracture of the femur

Ansian (Demmin) discussed the advantages of active over passive movement and described his apparatus by which the patient is enabled to make active movements of the injured member

WULLSTEIN (Essen) stated that the treatment of fractures must be as simple as possible. For the upper extremetics he recommended a plaster of Laris cast with strong extension

COCHT (Berlin) stated that he believes every method may I al to the desired end in this connec tion he called attention to the fact that although Schode plints are no longer use I Schole obtained good re ults with them

WOHLGEMETH (Berlin) recommende l a femoral splint use I by him with success during the war

Block (Berl n) demon trated an apparatus he de vied fr wire at psion which is very easily at justed applicabl to any case and of value for doubl extension

BIFR (Berlin) stated that up to a short time ago it was beli ved that a joint or pseu larthrosis could be projuced by movement. The pot the case I joint occurs where a joint belongs. Only in d ease conditions will a joint be forme I el exhere A pseudarthrosis always reappears at the same point It may occur even when a well fitting plas ter-of lars cat i used In addition to mechan ical factors a certain irritation is necessary (hormone

LEXER (Ir iburg) calle I attention to the difficults of mobil zing ankylo c I joints

MUELLER (Rostock) tate I that the advance in the bloodless tr atment of bone fractures is lue first to aid given by the mentgin picture and second to early functional treatment

KAPPIS (Hapover) stated that when a plaster c st is employed on the forearm the proximal joints of the fing is should be left free so that they may be fre is mixed. In a case of non-union having notice I that the pulse in the leg was poor he per forme i a peri art rial sympathectoms sulted in the return of the pul e and good bone consolidation

VON ZOEGE MANTEUFFEL (Dorpat) called atten tion to the action of cold in causing a th ckening of the bone and how by employment of the latter a pseudarthrosis may be heale !

LEVER (Freiburg) discussed the influence of nutrition on fractures as in leated especially by hunger o teonath; s

BOTHER emphasized the importance of net albering rigilly to any negaricular system. If believes that as governments are of trunch with placer of laris casts with of its and 5 chimers clamps

ALAPP (Herlin) In cused the a liantage of wire extension o or Steinmann's nail the form rean be continued for three or four mouths but the Steinmann na limut be removed at the infofthre or four wields.

Debrunner II The Result of the Implinitation of Tissue in Artificial Bon Defects (L. ber. di. W. k. g. n. G. lemil tata nickue tib. K. oche l. eck.). S. k. m. d. Bick. (k. 1913). https://dx.doi.org/10.1006/j.j.

This is a preliminary report of the results of perments in the production of artificial pe udar throses in rablits. It was found that callus f mainton was not privented by the train plantation of tree musel the suspense of the train plantation of tree musel the suspense of nutrition. They product throws resulted musels of nutrition. They product throws resulted more and those of nutrition. They product throws resulted more and those of nutrition. They product they will be more and those of nutritions are they a

The results 'the transplantation of free 'nn) all mistanes is everying in a list attempts true periliarit ross was produce I for this and allow printer I for the coursed in only in limit once Consollation occurred in only in instance. The reentgeneral plates and hit I go all examine in she if that the calliss was formed very slight and in it from the calliss was formed very slight and in it from the calliss was formed very slight. In the callist was formed very slight in the limit of the calculation of the triflight on scalls.

Kolin L.: The Operatic Treatment of Bon Fitules (f per t hill half gdrk och ttl) Ij j i 03 1 0

In general ther are three types of treatment f r bone a tule the conservative the conservative operative and the r d | loperati He fr t two are sultable f e fresh tire f tula net e nnected with larg bon cautie Inmany ases of old f tula the rail cal perative m thou is the niv one h h will go e a perm nent cure. In ca sin which th fistulæ have be a present for morth or years the osteomyelitic proce a is well a 1 ance I and hone cavities of consil r He size has beer formed \ a rule the hone cavity is the only factor ir venting healing of the fatule. The granulation tissue I ning an old bone ca its no I nger has the ablis t I g n rate its proliferating power is I n in shed M operation the tilsue must b thoroughly r mos d an I all pockets and chann is con erte i int a sin le cavity as shall was possible. The prep r 1 cavity in the bone may then be fill I with the

surrounding soft parts in the form of a pedial I flap (on Hacker a living tamponade). This radical operative treatment is the m thod of choice in all the cast of large is no cavitles.

Lifty off cases hich had been operated upon me than once before were treated by the author by the method deex beel. In forty, it (a) per cent a d finite cure of the fittil was of tanced. In 8 per c nt a recurrence des loped another operation was increasing in only at par cent as most off the returner or healed spontaneously. In ten cases to per cently the fullous tax kell to a large bore vity, but it is 11 not contain any necessition of overent hole). In the fort was cases in which a good overent hole). In the fort was cases in which a good

sals fut it is I not contain any acquestrum or foreign body. In the fort success in which a good result was obtain. I twenty-one months had felipsed before the curatis proc dure was und risk in The average length. I time it quired to effect a cure was thirts in no lays.

Simon S The Treatm nt of Bone and Joint Tuber value in Children (I r B h adlung d k h k octen nd hel ktube kutwe) trik I I Ck ng 3 Ch u 80

Hearing in sunf the remark by results which R ther and I in hard of tained by conservat e treatm into what was frield consider faurige I tuberculw I th I nes in junits the authors und trook to tr at by cens reatise in thot, all of the cases I tuberculous affection of the boors junt saim and git to which came under his care d ingager of fettrees.

The result er I rated the statements of the or gin tor of the type of treatment I monstrating that the id I cord to 15 for h alt g and restoration are oft n inh th fatient; placed as compl te I as read I trest in I subject d to the chemicothy sol gic I nilu nees I sunlight and open air The 35 se re 1 wel the may rits of which were these I person of the powrer classes represent d tuber ulo of the hones and i nts of all d grees of se rity nd Il loc to n Foll wing the employ m at f no oth relangue ly onser ative measure the author's afte to eg it 126 omil to chine I res result which in vew of the ually niavor ble ste nal rumstances in these ases is venw rely of censed est n In m m instances the

writh of considert in In man instances the truncal way prastice the Rend In a not of the viril ng time request its complition the hand of all ingine a martine and the impart of cell the properties of the proper

tion of nternal rears

In conclusion Simon states that at the present time conservative treatment in tuberculous affections of the bones joints skin and glands i being constantly extended because although it i expensive its brilliant results cannot be equaled by surgical procedures which do not always cure and practically always mutulate.

Fisher A G T Research into the Physiological P nc ples Underlying the Treatment of In juries and Diseases of the Articulations La cd 1023 CC 551

The science of manipulati e surger) is as jet in its minary. Mainy stiff and deformed joints might have been pre ented by a knowledge of physiological principles. Restoration of movement to crippled joints is often po sible.

When there is doubt as to when to immobilize and when to encourage movement the tendency is too often toward immobilization. On the other hand the routine use of movement is also erroneous

Normal return carriage has a smooth surface lubreaced by a snowal fluid which is end friends of the minimum. It has great strength might other continuous control of the minimum. It has great strength might other control of the minimum in the control of the cont

by ream of rad um.

There is a difference in the structure of the central and the lateral articular areas. The nutrition comes from the circulus articul vasculosal lying near the articular ed e and giving del cate offshoots to the lateral part of the cartility E. II Toynbees op nion the nutrition is derived from capillary loops lying in the cancellous spaces beneath the substituciar lyer of bone. Strangeways regarded the synovial fluids as source of nut it into the cartilage fluids as a source of nut it into the cartilage.

Acti e repair and new formation of at cular cartilage; greater in the lateral portion than in the central part Destruction of the cent al part is follo ed by a compensatory p oliferation of the lateral

There is evidence that osteo arthritis may be the result of auto intox cation

The synovial membrane differs markedly in its structure at different points in the same attitudation. The memb ane surrounding of tain faitly processes pojecting into joints such as the infra p tellar pad fat its rich in cells secreting muon which Havers called synovial glands. The synovial membrane is richly supplied vith nerves.

There is greater absorption of 1 otonic solutions diffusible does and colloidal does during motion than when the joint is at rest

In experiments the author has found that loose tode occurring in joints usu lly become attached to the syno ial membrani and that the latter sur ounds them with a connective tissue sheath

On the basis of these physiological principles it is concluded that most cases of acute joint inflamma tion should be placed at rest. Extension prevents deformity. Functional positions of election must be borne in mind. Early movement made cautiously and gently as the acute symptoms subside is in

dicated in all cases except those of tuberculosis. In chronic synoyitis carefully regulated movement fivors the ab orption of the intra articular fluids. Early movement is indicated in injuries or fractures involving the articular cartilages and following arthroplasty.

DANIEL H LEVINTHAL M D

Hey Groves E W Arthroplasty B at J S g

In determining the advisability of performing an arthroplasty the surgeon must consider the nature of the causative disease the nature of the disability and the patient's circumstances

The condition which promis's the best results is complete bony ankylosis with bones and muscles free from infection and pain. Cases of ankylosis resulting from trauma pyemia or gonorthea in which infection is at an end are most favorable for arthroplasty. Ankylosis resulting from tubercu losis osteo arthritis and rheumatoid arthritis are less favorable. If the ankylosis is bony and painless and if the limb is in good position it i usually better to lease it allows.

For a successful result following arthroplasty the intelligent cooperation of the patient is essential it is useless to operate upon professional invalids and workmen v ho do not v ant to return to work

In the formation of a new joint there are six essential vi (1) to make a sufficient gap between the bone ends (2) to hape the articular ends (3) to cover the articular ends (4) to provide synovial fluid (5) to provide hyaments and prevent undue mobility and (6) to restore function

The most successfully treated of the large joints is the elbow. The flap method is supernor to excision of the joint. A free flap of fascia lata is used. The author des ribes the technique of operation in detail.

In the hip there are three conditions, each calling.

for a special type of mobilizing operation—simple ankylosis massive ankylosis and osteo arthritis. Simple ankylosis requires osteotomy of the neck gouging of the shallow cup in the old head and

covering of the end of the neck with a flap of fascia lata In massive ankylosis the femur should be divided below the trochanter forming bones in a saddle

shape and a flap of fascia lata turned in
Osteo arthritis requires simple excision of the

head and covering of the stump of the neck
In all case the after treatment should consist in

an use one after treatment should consist in staging the leg to an overhead beam with the hip in flexion and abduction and the maintenance of a traction of 20 lbs for f st few weeks until the patient is able to get up In the case of a knee which is firmly anhylosed in good position a mob living operation is not justifed. Two conditions indic ting the operation are anhylo i of both knees and anhylosis in a faulty we ght bearing position. The author uses Juttis technique.

The coll cted results of it enty-one British surgeous are given. The chances of a good functional result in the choose were about even with the chances of failure. In the hip and there the chances of improvement were only one to lour or five. While arthroplasty is capable of producing almost perfectly functioning jo nts. the attainment of such a result is exceptional.

H. Russi. S. Scrutzy M.D.

Ble alski Experience with the Physiological Tran plantation of Tendons and Ita Results (Inch se of I have an at 4 physics of Sch n pflanzu g) Zis h f orthop Ch 19 3 xh 3

The advantage of physiological transplantation les in the fact that the normal mechani m for the gliding of the muscles and tendons is maintained and the activity of the displaced muscle is not disturbe because its attachment retains the normal relation to the applied force

The author shows by a cries of photomi rographs that transplanted mu cl's and tendons are ur rounded by normal glding tissue and that even their on me otenon i re formed

In cases of deform to tendon transplantation should be attempted only after the deformity has be n entitely elimin ted up to the point of over correction

B ver ver (2)

Mull r O Cl nical Observations on the Suturing of Tend na (kli che B b htu g n n S hn n n ht n) B u kli Chi 19 3 c x 1 754

After a b : I review of the literature the author gives the findings made in the clinical cramination of tot cases of t adon suture d ne at the Heidelberg clinic. In 66 per cent of these cases the union of the tendon stumps w firm and the function of the improved limb's practically normal.

The prognos depends not upon whether the leasen is not the flar or exten o utfree but upon whether or not it lies in the cor e of the fundon sheath in cases of the latter type cure results in the leasen of the leasen of the leasen of the leasen of the latter type cure results in the leasen of the sumps are visible in the wound all other car early old the referred to the conduction of the sumps are visible in the wound all other car early old the referred to the copied.

The prevention or elimination of infection 1 of importance. In the cas's reviewed primary suture

according to the method of Wulms with immobil, a tion of the inju ed extremity for eight days and subsequent energetic after treatment gave the best results. In the treatment of contaminated tendon wounds balsam of I cru proved of value. In some of the cases the tendons became aught in the scarred and contracted tendon sheaths and the hand had the appearance of a bird s claw. Busset I can

Koenig E Esp ri nees in F ee Bone Transplant tion in Tuberculous Spondylitis (E iahra ea mt de Ire en knochentansplat it n bi Spo dy bi t b ulosa) i h f oth p i I f li-Ck

The or ginal technique for the Albee operation the median splitting of the spinous process s to be preferred to all modifications. In thi ty nine of forty one cases the tr asplant healed in without reaction. In one c s its removal was necessary on account of wound infection and in to a shorten ng at both end was necessary to protect the overlying skin again t pressure nec ost There we e fi e deaths. One is as due to meningitis from wound infiction d ring the channeling in the sacral crest the dural sac v as opened. The four others we elate d aths one was due to tuberculose one followed lam nectomy and t o occurred after the pat ent had be n dis harged from the hosp tal Th rteen ope ations v ca ned out coording to Palva's method In the may r to of these as s the results vere unsatisfactory

In to of the t ents eight ases in hi h Albee's pro edu e was used the peration failed. In on the falure s due undoubte lis and in the other apparently t a too-short transplant. In a far ad anced case I tube culo s of the lumbar somal column the result va only mod rately successful the transplant had little o rective effect on the Lyphoss Intn s there were burrowng abscesses n n c th v had pen d pontaneously and caused the firm tion of a fistula. Closed pal pabl absc es we e op ned by puncture befor oper tion and injected with iodolorm glycerin In a pati nt 18 years of age the absc ss entirely healed after wid opening cle as ng with carbolic a id and sutur in the thereas sollarg abscesses a successful r sult v s rare. In one case in which sh rtening of the tan plant vas neces ary that of a 6 year old patient an at cess dev loped fter the ope ation

I aralytic ph n men; hould b overcome bo one nat e me sures. This ret ogree on was een only at the cry beg nning of pre su e symptoms of dvanced cases the c nd ton d did not at the priene with laminectomy during the same prof limprovement in a pr. ext) showed that when conservative t e tim of has fail d operation to r liver pressure a suggestly indic tet to a velocity for the property of the furtheonly case nowhich thecerve cal were they all our as analysiosed a very good result is so that ned

The operat on should not be performed before the second year of I fe Contra and cations to bo transplantation are signs of paralysi burroving abscesses with fistular and advanced visceral disease (lungs kidneys). When four or five vertebracate

involved the project of cure is slight.

The best results are obtained 1) carly operation.

In speer cent of the cases operat 1 upon by the author the cond tion was improved. In the early cases the spine became capible of weight bearing and the symptoms disappleared.

(LEMPL 17)

Fuffier Oateomy litts of the Lower and of the F mut Treated and Cured by Anti Staphylo coccus Medication and functure will twent tion of a Deep Ab ces (O foonythef and the firement publication and the firement publication and the companion of the post of the

A over old chill with symptoms of acute osteomyel tis of the femur was treated by the in section of a c cm of taphylococcus vaccine corre sponding to four billion staphylococcus aureus and one and one half billion staphylococcus albus The following day an injection of c to of vac cine corresponding to 500 mill on staphylococcus aureus and 200 mill n staphylococcus albus wa given The third day the temperature fell and the swelling on the internal aspe t of the thigh became fluctuant live days aft r th onset 100 gm of ous were withdrawn by nuncture and of vaccine was injected. Sub quently to more injections of vaccine were given in the hospital and the child was sent home. During the following month two mor injecti ns ere given. The nu show I pure staphy lococ us aur us

Ultimat is complete cure with good function and negative Vray for lings as efficied

In the d us in both littora and lorigue are michical to doubt that t m lits has ever been present a the roomigenogram showed nothings to midicate it As the point we sexibly hall that changes appear in the tri cule only after the desses has 1 on present a m into or so Toffer state! that he would have the loric struck with the case has loric struck when the latter

Selffert Transplantation of knee Tendons (fu L be plan u 6 d kn exch n1 B 1 kl Ck q 3 x x 4

The author r port t nts nine transplantation of kneeten long twenth see of high termode because of us here a possible see the see that the see that

it is neces are to secure the joint against over extension. Silk sutures are used. The results have been uniformly good. Schmidt (Z)

FRACTURES AND DISLOCATIONS

Rugh J T The Differentiation of Sprain Fractures and Congenital Anomalies Thr p G

The author has been impressed in the possibility for error in the diagnosis of so called sprain fractures especially those occurring in the hands or feet. The lay min will invariable attribute the condition to the condition of the lower back.

The condition of the lower back is the condition of the lower back.

The recognition of a sprain fracture of the able following a misstip is generally easy and the \ rate examination will show a small layer of bone torn off at the point of ligamentous attachment. In other cases with similar symptoms he \ rate lactoses a supernumerary bone or a dise; sion of the bony parts which similates a fracture but is in

real ty a congenital anomal)

Rugh discusses a case diagnosed as a sprain fracture in which a ubiale externium was found at the inn r edge of the scaphoid an i an os trigonium at the posterior edge of the estragalus. In another case a milarity diagnosed the symptoms were due to spina hifd i occulta.

The mest common anomalies in the foot are the table externam the os irronum and the los set is liaming at the base of the fifth mertiatral. Less common are accoundry os caleis near the heal of the astragilus an intercunciform an intermetatax amm and a seasmoud in the tendon of the proneus longus 1 vuriation in the esamoi is in the tendon of the flantire floor of the flantire floor of the great 1 to may suggest fractur. Two sessimoids are common but in some ca esthere or four may be present.

knowledge of these anatomical variations is of importance in the interpretation of ski grams particularly because of their me licologial aspects

R C Lo reces VID

Lambotte A What Is the Best Time for Osteo synt esis in Recent Fractures? (Qu I est J meill m met pou pr tiq Losteo synthes da le 1 tr ec nies) 1 h f 1 oblig 1 d h 923 x 1 57.

In Lambotte's operion the length of time operation should be delayed after it citure is as follows: i fractures of the humerus radius and indioblique fractures of the leg diajob seal fractures in children not less than eight laws.

Fractures of the shaft of the femur in adults twelve to fifteen lays. While muscular contraction

and infiltration of the soft parts are theoretical objections to such a long wait they are of no pract cal importance especially when methods of trac-

tion can be used in the interim 3 I piphyseal fractures delay in u non is rare therefore I mg delay of operation is unnecessary

4 Fractu es of the condyle of the humerus in children from four to six days s I ractures of the tibiotarsal joint from ten to fifteen day

6 Fractures of the femur fifteen lays

7 Fractures of the patella from eight to ten days KELLOCG SPEED M D

Albanese A An Expe Imental Contributi n to tle Study of Wolff's Law in the Healing of Fractures (C at ibut perim atale llo tu! d lla l gg d W lif el proce so de guarigion d lle f tt) I I I l om 1923 x se ch Iom 1923 I se ch

337 In fractures produced in animals the author studied o teogenesis by means of injected al zarine

which has a predilection for neo-osseous formations The find ngs fully demonstrated the prin ple of Wolff's law in regard to the transform tion of bone and the physionathology of fractures formed also to the principle of the trophic action of functional stimuli on the process of o seous neofor mation and d monstrated the diversity between anat mical and functional consoli I tion of fractur's II A BRENNAN

Imbert L The Treatment of P eud throsis by Inj tions of Fracture Serum (T it mind des p L three pa le injetin deserum d i tu) P méd I r 9 3 m 681

I fracture is not ided in bealing and a pseudar throsis is not cured by the ingestion of cilcium pre tarations After fracture the blood contains the same quantity of c leium as bef re since the absorpt on of the elem at is not increase! On the other hand the sit of fracture suddenly a quires the power to ut lize calcium in the f rmat on of call's In th authors op non this ullenly ac nuired pover may be du to th pre nee in th blood of the s cretion of som gland r the which is stimulated by a sub tanc clabor ted t the st of fractue and arrid in the circul tion If the a sumption is corr ct it appear I g I to soume that consolidation would not occurif of these substa ces v as lacki g an I that t would occ r if st were added to the blood by the injectio of blood serum from a per on with a h aling fr ture The author believes th t when ps u1 thr is or

laged union re not due t an anatom cal ond tion such as a great I ss of bone ub tance faulty ann oximation or the interposition of muscle the subcutaneous injection of blood ser m from a patient ith a fractur ab t thirty day in the proce s of n rmal union is nicet d. He injects 5 ccm of blood serum taken mmed at is after coagul tion of the dra n blood The dono

must be free from infectious disca es and must have a negative Bordet Wassermann test Various sera should be tried until on is found that is active

In six cases of pseudarthrosis treated in this manner there were no unfavorable complications In four sol d union resulted quickly but in two the consol dation was not permanent

WALTER C BURKET M D

Brisset Decapitation of ti H merus with Intra Coracold Disl catl n of the Diaphy is (D c p tat: d lhmrus e lust it ca d en d lad ph se) B II I m m Soc d 1913 1 0

The case reported was that of a man who fell upon his shoulder i om a bicycle. The diaphyseal frag ment was pushed upward toward the axilla. An attempt at extension with a Delb t appar tus was unsuccessful Bloodi as reduction of the diar hyseal fragment was eff cted under anæsthesia b t coaptats n with the humeral head could not be main tained and retention was possible only 1 ith the use of a long Lambotte screw Function as restored by the en I of a month

In discus ing this case Hallopeau remarked th t it was one of horizontal fracture of the su gical nick at its upper end. He h d had ten such cases of transverse fracture with diaphy seal displicement and believes that the operative method of reduct on is the only method indicated. The u e of ser ws for retention is not always necessary in several of his cases the reduct on of the fragments was maintained by the muscles W A B ENNAN

Goddu L A O A Report of Unusual Gas Inf c tion with Compound Fracture and Bridging of New Bone with ut a B ne Transpins

J Bo & J 1S g 9 3 8 4

This article repo to the cale of a boy 19 years ! age whose I it arm and r ght hand were mangled in an ceident March 21 19 1 R pair fth lacerated area was effected but t ent four hours later the pat ent was referred to the author in poor condition with a temper tur of 1 15 degrees I and a weak pulse

Under anæsthesia all sutu es e e rem ed mul tiple incisions were made and D k n s treatment as beg n Th n xt d , the condition was much improved An rea orth desal surf arm wa exposed for di tance of 6 n d wn to the ulna Undr con rat e m asu s th general c ndition imp o ed and the wound fill d with gran lat on Th \ as t this time ho d the los of ain of the rad s Pas em tona dma age ere begun long befor the ound healed

On May 6 a small pec of bar bone w removed from th reg on I the ulna I hu hade d ntly pe ented h l g Acts exerc es and massage led to ste dy impro em nt O July 7 the p te t was

ad sel to return to wo h A oenth nogr n made n Augu t 19 sh wed a brdging o er of the 3 ngpnthrding ith so d bone The rationt wa able to rotate the forearm a function v hich had been impossible before By March 1922 an excellent result had been obtained Slight a lduction of the hand was the only evidence of a formit.

A number of toentgenograms are reproduced to shot the extraordinary activity of hone growth

Boehler L The Functional Mobil zation Treat ment of the Typical Fracture of the Rad us (D f kt onelle B gung behadding dr typiche R d ustrue h) M ckn m d N h hr

According to the most recent estimates typical frictures of the richus constitute about 2; per cent of all fractures. The results of the former immobilization treatment whach in abovable cases required about orty to days are unsatisfactory by the term (unctional mobilization treatment Bothler means that the reduced fragments are kept completely and continuously at rest but movement in many or all of the joints is maintained. The still common practice of plating a fracture of the radius trest in maintained with a still result of the results of the results

immobilizes not only the fracture fragments but los all nerthy joints in a position which in the cases of persons over a of size will cause still enter the fracture of the case of persons over a of size will cause still never the fracture of the case of the

keduction of the fragments c n be accomplished strist citoris, with mail pan and the muscle contraction ca cal by it are presented by general oct cal anseth in 1 Usually it may be effected by tron even it citon and 1 counter traction in a linguishmal dirty too. If the 1 the author pixes the fearm just above the fracture site on a look of vool covered by a cushion and while munituin ng longitudinal traction. Bees the period to the counter of the counter

The p tent begin a twe movement of the fingers and elbo joint in the first day. After two or three lays the han may be used with caution. The lists is it on cont mu b) for three weeks. The capoular all ig m at u paratus of the vrist will not shrink a the tendon of the exercised figers will not shrink as the tendon of the exercised figers or nationally left vert. There is aiming limit tion if m tion u willy diappears ithin a week after the m and of the splint.

But vert (2)

Massart R and Cabonat P Traumatic Lesions of the Wrist in Children Late Results (Les lesso trum in es du poignt chez le fant ré s liatselounés) Ly n ch 1923 xx 67

The authors studied the late result in the following eighty eight case spruns of the wrist and enphyseil separations of the rain without displacement nuncteen epiphyseal separations in the placement wenty hive fractures of the radius alone eighteen fractures of both bones in the lower fourth (green suck type) four fractures of both

bones with overriding sixteen.

In nucleic cases of sprain with slight epiphysed separations eleven showed a pirfect anatomicial and functional result and three a shortening of the radius of from 0.5 to 1.05 cm but normal function. In three others there were estisfactory functional results but compliant was made of spontaneous pain and in two of these there was slight imitation of supination. The author ascribes the pain to a slight tearing away of the stilloid process. Two cases showed serious disturbance of osteogeness artest of growth and failed deviation of the hand

If the radial diaphysis is shortened it is also broadened Poland has ob erved very appreciable differences in length after unimportant clinical lesions. Anomalies in diaphysical thickening and the arrest or slackening of growth are not in accordance with the importance of the separation and renot dependent on poor reduction. Ollur was unably to obtain arrest of growth experimentally by producing epiphysical separation but concluded that the traumatism may localize an infection and that the latter may be a factor. However, in sprains of the wrist and epiphysical separations without displacement the results as to growth and function are usually recellent.

Of the twenty five cases of combiseal separation with displacement nine showed perfect anatomical and functional results. In sixteen the functional results were excellent and the deformities a buch were present at the beginning had practically dis appeared The radial epiphysis in its backs and displacement separates the periosteum usually over one third the length of the posterior surface of the bone and frequently tears off a small cuneiform fragment Callus fils in between the diaphysis and the periosteum resurption takes place on the opposite side of the bone and in time the mass i molded remarkably like the original bone in form and structure so that subsequent d termination of the exact lines of fracture is almost imposible The authors have not observed arrest of bone growth after epipy seal separation with great displacement In some cases unexpected mod fications of structure of the draphys s near the conjugal cartilage without change in the epiphysis have been noted

S mple fracture of the radius heals without leaving any trace even in the roentgenogram

Green stick fractures require reduction of the angulation even though it appears negligible Because I equently such fractures are painless and infilt tion. I the soft parts are the retial of pections to a challong walf they are of our factived into rance, e pecially when method of traction can be used in the int rim.

3 If phase I fractures delay in uning rare therefore loggid lay of of rational unnecessary.

4 Execute of the conclude of the in rus in

children from four to ix lays
5 Fractures of the til otarsal 1 int from ten to

titeen 1 vs.

(Fractures of th femur fitteen 1 vs.

Tractures fithe natell fromes ht 1 ten favs.

Larry Service M.D.

Alban A An Experimental Contribution to the Study of Wolff Law in the Healing of Fracture (C. t. but Ageinn tal.) 1 st. 1 dilategy by Wife 14 occased guring of dilategy by Wife 14 occased guring of different folial of three 1 st. 1 me tog) 5 sec. bit

Imbert L. The Treatm at al Pseud chrosts by Injection of Fracture Serum (It is n t des just 1 throse p 1 inj tin d secum d 1 t t) Ir self lar , 3 x i 68

A fracture is n talked in he lag and a possul is the side in cure 13) beinggest not each impreparative. Mere fracture the thol contains the same quantitie of calcium as 1 fre same the absorption of this elem nt is not irer used. On the other hand, the side of fracture and 1 by acquires the power to utilize calcium in the for in no citll. In the sub-responding to the power to utilize calcium in the sub-responding to the power to utilize calcium in the sub-responding to the sub-res

 mu the free from int choused eases and mu that a r g tive B whet Wa sermann test. Various a rashould be true touted one is found that is setting.

should be tried until one is found that is active.

In six cases of perchard rocs trict on the meanner this were rounded and complications. In four will furnish the large with but in two the

consolitat h wa n t permanert Walt # C. Il as r M t)

The cate pettel was that of a man who I llyon his shouller from a beed. The 'aphysical from a treed that a strength of the artiflation and the artiflation at the artiflation of the artiflation at the artiflation of the artiflation at the art

th end of a m nth.

Ind cut ong this c s. Hall peau r marked th t

two one of ho toontal fracture the sung almed,
at its upper end. If h I halt ten such cases of

tran verse fracture with dual by well a placement and
beleves that the operate emithed of reduction is

the old method in the lile of present

retents in a total aways necessary, this see the following the reduction of the fracture of of the fracture

Coddu L. A. () AR port of Lnu wal Cas Infection with Compound Incture and Bridging of New Bone without a Bon Tran plant J.B. J. 15 E. 013 8.4

This article report the case of a boy 13 years of age whose I ft arm 10 leight han I were mangled in an eet at Mrch 21 1021. Repair 1 the La er te d ar was eff ted but two not four hors later the patte t wast for ed the suthor in poor condit in with a temperature of 101 ted 12 to 1 and 1 week.

I that a names them as I institutes were more of multiple intents in ere in 1 and D kins it tent at we begun. The next did the individual in was much important and a state of the additional tent and a state of the additional intention in the additional tent in the additional intention in the addition in the additional intention in the addition in the additional in

O My6 asm llpiese of br bo ew rem ed from the region of the ulny. The hise limity reented hing Acti certise ninax gld to stead impro ement O J by the tentwas

died to returnt ork
A roentgenogram ad in August use howed a
bridging o er of the sign prother due theolil

bone The patient va able to rotate the forearm a function which had been impossible before By March 1922 an excellent result had been obtained Slight adduction of the hand was the only evidence

of deformity

A number of roentgenograms are reproduced to show the extraordinary activity of bone growth

TRANK G MURPLY M D

Boehler L. The Functional Mobilization Treat m nt of the Typical Fracture of the Rad us (D funkto ill Bew g peknadlu g der typsch Rad bruthe) Weike d Wek schtar Lu 187

According to the most recent estimates typical fractures of the radius constitute about 25 per cent of all fractures The results of the former immo bilization treatment which in favorable cases re quired about orty t o days are unsatisfactory By the term functional mobilization treatment Boehler means that the reduced fragments are kept completely and continuou ly at rest but movement in many or all of the joints is maintained. The still common practice of placing a fracture of the rad us at rest in maximum volar flexion and ulnar abduc tion with a Schede splint is to be condemned. This immobilizes not only the fracture fragments but also all nearby joints in a position which in the cases of persons over 40 years of age vill cau e stiff ness in one week, a stiffness which cannot be re leved Moreover since in volar fl xion the exten sors become over stretched they tend to shorten and as a result a new displacement of the reduced fragments often occurs To prevent this the hand must be fixed in a position which relaxes the flexors and extensors equally

Reduction of the fragments can be accomplished satisfactorily only when all pa n and the muscle con tract on caused by it are prevented by general or local anasthe ia Usually it may be effected by strong even traction and counter traction in a long tudinal direction. If the fails the author places the forearm just above the fracture site on a block of wood co ered by a cu hion and while maintaining longitudinal tract on flexes the peri pheral fragment first volumers and then ulnarward simultaneously pronating the hand. He then applies an unpadded dorsal plaster of Paris splint 25 cm long and 12 cm wide with the wrist joint in exten sion or slight dorsal flexion the proximal finger joints being left free The longitudinal traction and the support of the fragments are continued until the plaster of Paris h rdens

The patient begins active movement of the fingest and elsow join on the first day. After two or three days the hand may be used with caution. The spirit is left on continuously for three weeks. The capoular and I gamentous apparatus of the writ capoular and I famentous apparatus of the writ capoular and I famentous apparatus of the write capoular and I famentous apparatus of the writer capoular and I gamentous apparatus of the vertex of fingers continuously did appears within a week after termoval of the pint.

BRUNER GET

Massart R and Cabonat P Traumatic Lesions of the Wrist in Ci ildren Late Results (Les léssons tra mai ques du pogn t che l'enf t résultat 1 g (s) Lyot d 19 3 67

The authors studied the late results in the following eighty eight cyses spruis of the wint and epiphysel separations of the fall and wint and epiphysel separations the fall and the supportations with discourse the separations with discourse the separations with discourse eight engaged for factures of the radius alone eighteen fractures of both bones in the lower fourth (green sixt typ.) (to fractures of both bones with overriding sixteen).

In mnereen cases of sprain with slight epiphs seed separations eleven showed a perfect anatomical and functional result and three a shortening of the radius of from 0.5 to 1.05 cm but normal function. In three others there were satisfactory functional results but complaint was made of spontaneous pain and in two of these there was slight limitation of supination. The author ascribe the pain to a slight tearing away of the styloid process. The cases showed seriou di tutbance of ostrogenesis.

cases showed seriou di turbance of osteogenesis arrest of gro th and radial disviation of the hand. If the radial disphysis is shortened it is also broad ned Poland has observed very appreciable differences in length after unimportant climical the arrest or slackening of growth are not in accord ance with the importance of the separation and are not dependent on poor reduction. Ollier was unable to obtain arrest of growth experiment by by producing explysical separation but concluded that the traumatism may locabee an infection and that the latter may be a factor. However in sprans of spherostric the control of spherostric the design of the prophyseal separations without of spherostric the control of spherostric t

Of the twenty five cases of epiphyseal separation with displacement nine showed perfect anatomical and functional results. In sixteen the functional results were excellent and the deformities which were present at the beginning had practically dis appeared The radial epiphysis in its backward displacement separates the periosteum usually over one third the length of the posterior surface of the bone and frequently tears off a small cuneiform fragment Callus fills in between the diaphysis and the periosteum resorption takes place on the opposite side of the bone and in time the mass is molded remarkably like the original bone in form and structure so that subsequent determination of the exact lines of fracture is almost impo sible The uthors have not observed arrest of bone growth after epipy seal separation with great displacement In some cases unexpected modifications of structure of the diaphysis near the conjugal cartilage without change in the epiphysis have been noted

Simple fracture of the radius heals without leaving any trace even in the roentgenogram

Green stick fractures require reduction of the angulation even though it appears negligible Because frequently such fractures are painless pyters is neglect if m. The cillu will mult the manupulation has the discount of the most of the company of a table mass led to progress election that of the first of the fir

If a tree of the as has with serving are usually accounts either far stores of the ulman at hance le 1. The type of fire ture with lack we refer to the le 1. The type of fire ture with lack we refer to the left of the left

th to the Snulm as this fecture is feet with it will be flight in cellular in man for supplementary in the Clinicall of tracel is still card a normal still the trace in with tearing of the still may unless from the card in many fail furtherstand in the card for mental and feet for the control of the control of the card in the ca

Laffannon; ure verib til it El r bin a perf til rjur i and ib alsen e of onsiblatin ef the till uses me

compliants.

A study of the nirecult fingure is the write above that it is a life if the ellevin man and it is a clean in the end of the end of

Gast har of the territorian of the control of the c

an I an irritate in cough. The rientgene gram is often

cross and t the others we full.

C mpleter is resultating percent of the esset. It metall to leave the in Compensation in exact, in the present of the cases (accept the entering purpose the percent of the cases (accept the entering purpose the percent of the entering purpose the entering purpose

plic ted cases this erigification if disal his is

thre and a tenth weeks. In unon-jearle seems he li in un nec sur ner tra and allo e dies may hely aufferent. This treatm i ly it also in jears have not the train of the train of the seems hely allowed the seems have a fish kin in seed of as a fermorth ke. I those fit ion piner in there with processe englishers i link kin in fig. 1 in the lift of the seems have a fine the large sleep until the kin high 1 in the lift of the large sleep until the kin high 1 in the large sleep until the kin high 1 in the large sleep until the

Orat r 3 Th End Result in Fractures of th P11 AR p rt on 5 nty Cases Tre ted During th Sean 1931 1931 (1/2 reneb < fe fieth f kt re 11 robt ! \$ Be dr j.h. got g \(\) f \(k \) f \(k \) A \(k \) 0 3 \(k \)

In author rith experinces the on Filbergin in a cint asset frate of the pelistreat four gift it that could be used to the pelistreat for the gift it was the article of Milgian Kiss Menter a likusmin Theoritic mith subjectly Thim is more truther in the subject of the subject of the subject of the more truther in the subject of the subject o

 10 per cent of the cases the treatment was success Jul and in 22 per cent it failed Anterior circular fractures and marginal fractures made up 80 per cent of the total number acetabular fractures 50 per cent and posterior circular fractures and Mal gaignes fractures 25 to 30 per cent Fractures of the pelvis occurring at an advanced age have a very TEIN (Z) poor prognosis

Goddu L A O The Treatment of a Case of Intracapsular Fracture of the llip by the Whit man Method JB &J ntS g 19 3

The author reports the case of a patient 56 years of age who in a fall sustained an intracapsular fracture of the left hir with overriding of I in

Under full anæsthe in the leg was forcibly ad duct d and extended until it was the same length as the normal leg Manipulation and abduction were made to bring the broken end into approxima tion and a plaster ca t wa applied. The cast in cluded the entire left hip and himb and the right leg to the knee 's ray exam nation at the end of seven weeks showed excellent position At the end of nine weeks the cast on the right leg as removed and the patient as allowed to get up At the end of eleven weeks the cast vas entirely removed and the \ ray again showed xcellent to ition. The plaster cast which as bivilved was orn du ing the day for protection but removed at night this being done for two month. When h harged the nationt as able to walk vithout crutches or support

In the author or mion the Whitman m thod of treating int a nosular fractures of the hip is i leal if the case is se it early and cooperation is obtained E treme ab fuction 1 essent al Protection of the hip should be continued for a considerable time after union has occurr 1 n1 may be readily ob tained by means of a livalve plaster cast which can b removed at night

The articl is illustrat d by a number of roent g nogram sho ing the progress f th case i A C Museus M D

Campbell W C Fractures of the Neck of the Femur J 1 1/ 1 931 1 1

In a previous art 1 the author reported twents nine case of intr c p ula fracture of the femur in twent four of hich an excellent result vas ob tained Recently he has made a linical and \ ray study of as many of them po ille one or mor years after the cur no of the facture to le t rmine the natur of th union

His discussion of fatus of the hip include Interir chanters and sul trochanters frac tures. The unite mer radh than fracture el where

Impreted fretures. The emas unite und r tr in at ith rest in bid or any simpl method of nxit on U ually they ar intracapsular The d agno s 1 often impo sible vithout an \ ray exam mation Weight bearing may result in di solu tion of the fragments and permanent disability

3 Capital fractures of the head proper These are rate but may cause serious impairment of joint function and require a radical operation 4 Intracapsular fractures In these non union

frequently results Of 227 cases of fracture in the region of the femoral neck sixty seven were cases of ununited intracap u lar fractures of several months or years duration The remaining 160 were cases of fresh fractures including seventy five which were complete intra capsular nineteen impacted fifty nine trochanteric two impacted trochanteric and five capital

In all cases of intracap ular fractures the Whit man abduction method was employed as a routine and a plaster cast applied

In the aged bony union i very slow. The \ ray may show the fragments in perfect apposition at the end of six months and there may be every clinical evidence of bony union but later as veight is borne bending of the neck cova vara and complete separation of the fragments may result

In twenty one cases of intracapsular fracture examined from one to five years after the injury the re ults were as follows non union one fibrous tinton two doubtful un on two sold bony union exteen

Of twenty cases of ununited fracture of the hip operated upon by the author by the m thod he described in 1010 fourteen were cured two were not benefited one was improved and in three it is too e rly for conclusions as to the outcome. Union can not be affected after extreme at only has super ened but usually re ults when the fracture is less than a year old

I graft is usually ab orb d in t o years FR NE (MURPHY M D

Huebner A The Fnd Results of the Treatment of Fractu es of the Neck of the Femur Also a Contribut on on Non Operative Treatment (Firgbede Behadigo She kelhal gle h er Betrg u Fr brue h n u brg der u bl tig n Beha dl ng) A! 160

Of 135 cas s of uncompleated fractures of the semoral neck which came to the clinic of the Charite Hospital in the period from 1912 to 1921 after freat ment by various methods in other institutions 48 per cent showed non union. The examination were made from three months to thirty two year after the injury. In discussing the functional results, the author call attention to the fact that fibrous union may give good function and that I mping is one times due to impairment of the blits to bear weight rather than to shortening In the case reviewed it as found that the chief cau e for non union was too early veight bearing. In most in tances viension or a pla ter cast had be nu ed

The factor of chief importance in the treatment are exact couptation of the fragments and the prevention of weight bearing for a considerabl length A cure is possible even in the cases of persons of advanced age For fixation the old exten

si n'an i plaster casts are the be t. The promosis is favoral leff the rienty nira shows ex tenantation When couptat a fail operat a to like I wited te at bear ital fractures. Farita n is be t. Frair 1 with a well m fe pla tereat H cur y xx (/

Mela e Commin ted fractur of th 1 mer and of th 3 mur Osteosyntle i by the Tran p i flar Rost Cood Result if t tr tlrlait lite 171) 7 K 1 T 1 1 1 mm Sur d & d 2 1941 1 149

Anan geelagges fil soneters Inlan In feet I r two b urs fter the a c let b was un run is Th New alm In I list I com minuted fracture of th I wer nit fih femur at the cochral Dis stellit the art ultan so that thre tragments wer I melty the it rust ar lestern lecables and the trich a Th shift of the f-mur wa d flat I arte ; ly ar i lit 1 un the struct r the tella 1 11 h

list tree draine I from the i int

I ft n days sft r the accid nt wh h wa early as the patient's general conft in world at w it an pen telitti n wa fin to th tran pat il r The fitella wa s etl a lin its m file an ! is er thirds with a (chi saw and the blood and irtea arturular cluta wer e artia d. The trich a was detach d and wrapped; a sterile comment. The condites were tard tog ther by m and of a Inti tt serem a in atter were a Happert marith trach a was brow ht a any them by a In an from each confide toward to the ы It fer truct tep byra wa fael i exis thouselaphishes large scres die nite mitbeleternale ter male a lar taler lest ward the La has and the na . 1 Literal ; tellar L'r s stru tures w re reconstruted la tat if r u resof be schar Th be was then t's edinam talgutter

The first setal se recovers wa up mil el On the rts thich the gutters met wa r mon fant gett e m utatun ffe knee w begin The fat newalk don the fattern d Thee math fter the epert at wiedfr three neutre by tw fout th autofac

and without fatigue. The art plants or of are s mesh tim til tare im nig The tent gngrmab anemlerh un exulerat all anin benet fatti na ou dithe errens. Beine fil - (Inalin namer) ett. th author tript It rem the crews in of the very re surreally 1 not n.

Water & C. Bearer M.D.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Ranzi E and Albrecht O Arterial Air Embolism Following Operations and Injuries of the Lung (Leb a terell Luttenb b nach pe atten En griff n und Verl t ungen dr Lu ge) Mritt d 6 rb d V d u Cr 23 xx 1 709

In the authors opinion the conditions formerly thought to be pleural reflexes are nothing oth r than gas emboli which enter the general circulation by way of an opened pulmonary vein

Following an exhaustive resieve of the hierature on the subject four cases observed at the Estelberg clinic are reported. The first to were fatal Although no embodius was demonstrable at autopsy the authors believe that embodi in was present as it was indicated by a typical clinical picture. In the two other case complete recovery resulted. Of special interest was the fast tase which was brought into the hospital for the treatment of a puncture would. After closure of the external size modern would be a supplementation of the control of the

For such cases the authors recommend wide e posure and suture of the lung under differential pres sure by Saverbruch's method RIEDER (Z)

BLOOD AND TRANSFUSION

Moons E Observations in a Case of Autotrans fusion (B ob htung n bei n m F ll vo Autot ansfus n) Viaamsch g k 1 jds k 19 3 1

The que tion whether or not transfusion of blood should be done after an ectop c pregnancy is still undecided. It is believed by many particularly Belgian surgeons that measures to combat the anæmia follor ing an operation are unnecessary as a case is rarely lost from exsanguination author favors the autotransfusion of the blood found in the abdominal cavity. He frees this of coagula by squeezing it through compresses In one case 40 per cent sodium citrate was added to about 550 cem of the blood which was filtered twice The patient died twenty one hours later. The danger of autotransfusion : greater the sooner the transfusion given after the first harmorrhage. The author therefore ad ocates injecting the blood mixed with physiological salt solution or glucose and without sodium citrate. If there is a choice between the blood in the abdominal cavity and that of a donor the blood of a donor is to be preferred the addition of sodium citrate is not advisable

Descarpentries Injections of Autogenous Hæmo tyzed Blood in Surgery and L ternat Disease (i petitons dau s z phém lysé en hurage et e p tholog ttern) t d fa co-belges d d r 93 x 1 63

The author gives injections of hamoly zed auto

The procedure requires a sterilized to ccm syringe with a vaselined needle a sterile wide mouth vessel with a capacity of 60 ccm and 20 ccm of sterile water. Ten cubic centimeters of blood are withdrawn from the patient by vein puncture and mixed with the sterile water one syringe full then being slowly reinjuncted hypodermically.

Two or three hours later the mixture in the flash as the appearance of jelly. The fibrin is removed by stirring, with a rod and some of the remuning solution is given as a second hypodermic injection. A third injection similar to the second is given after another two or three hours. Discoloration and pain at the sites of injection disappear in a few days.

The author is unable to explain the effect of these injections but states that it may be another case of sim lia similability curantur. It is necessary that the leucocytes be hamolyzed by a neutral substance such as water.

The method is simple rapid and safe and re quires no special apparatus. As no foreign protein is injected, there is no serium reaction.

The clinical results vary. Although in severe cases the effect of the injections may be surprisingly good the best results are seen in cases of wounds complicated by Imphaniquets or expisible Scases of this type may be cured in twenty four hours. In clearlier infections pain and Jymphatic streaks disappear. Pus forms in the wound or around the infecting body. In septicema, the effects are more marked the later the stage of the condition when the injections are given. In cases of long standing a mjections are given. In cases of long standing a days may be received an attention of two or their days may be received the temporal of two or their ble for the infections must be removed. There is an increase in the polymorphonuclear leucocytes. Four cases of infection are reported. The author.

rour cases of infection are reported. The author has obtained good results with the method also in influenzal bronchopneumonia pelvic infection in women and impetigo and osteomyelius in children In surgical cases it may be employed to stimulate the leurocy int defense Leuroce Spreps MD

DeBiasi B Studies on Iso Agglutinins in the Blood of the Newborn J Am 11 As 19 3 lxxx 776

Mothers may act as donors for their newborn infants without compatibility tests for agglutination and hemolysis any langer whats sever

If to is are c ntemplated the cross agalutination test should be chosen in order to prevent the rejection of the motiler don r in case she is found to

lelong to an incompatible group.

The corpuscies of the n whom infant his the quots of rec priors. The is sho neby the fact that in all of 100 cases texter of the ne shorn lab case are uped successfully according to the Moss class.

t cation

Successful transfusions done at the Harl m
Hospital New York City from methers who were
found to belong to groups incompatible with those
I their respective newborn infants. In on trated
what mothers may be used the mushing without

Valassopoulo The Hemolytic Action of Sodi m (Heat (Su) tin lém lyt q du citat d 5) B li im m Soc méd d hily d 1 19 3

in the case of early pain at with anying who was a livel to take \$gm_{1}\$ hum citrate a lixe a betworking from the mouth and the stoccur la fw minutes after half the live had been taken it lift a glass of water. Thirty, it has rejected to total above a hal been opened with the galanciarty. The hemorthage from the worn la stock a lively a good the hemorthage from the worn la stock to the lively a good to the hemorthage from the worn la stock we can sign of hemorph. I after action to the stock of the lively a good to the lively a

Valas opouls hell ves that i m citrate is at to cause hamorrhag if it c mes in contact with such lessons as gastric picers and that therefor great care i nece ary in its use

KELLOW SPECE MID

Arumbhaar I B. Th Hæmolyt poi tic Sy t m in th Primary Anami with a Further Note on the Value of Splen ctomy & m J M Sc 1923 1 1 220

The article is a compilation of the most approved theories as to the harmolytopoietic balance and the methods of estimating the amount of blood cell of mation and lectruction. The results of spil netomy in various diseases are shown in the following sales.

RESULTS OF SPLENFORCHY IN MEDICAL

DISPASES						
Liene	And In the Control of	Pra T al y	Rec 1 of 2	Lina paro (Im proved	45. E
Colon mia When for to I Jakesh du	-	5	_	_	78	3
Hernit) I sou Mile sou is	! !	٠			5	3
I'm t		1		١.		
There has I						
Tot 1		_	_ !			_
tThe pro	remort! i	× ~.	1 1 1	of hi	s d week	e is to

CARL L STEE E M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Nye R N and Mailory T B 4 Note on the Fallacy of Using Alcohol for the Sterili atson of Surgical Instruments B st n II & S J 9 3 lt us 56

In two cases operated upon with a Bard Parker knife blade which had been thoroughly washed with hot water and soap rinsed with scalding water and immersed in 70 per cent alcohol death occurred in forty eight hours from gas bacillus infection

Experim nas to determine the effect of the ,o per cent alcohol on a gas product a psorvaltang anaerobe showed abundant growth and gas after meubstoned abundant growth and gas after meubstoned of tests for the state of the fore seemed logical to infer that probably in at least was due to infection at the time of the operation of the state of the state of the operation of the operation of the state of the

T IIL C ROBITSH K M D

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Laskown cki S The Bacteric dal Power of Lugol s Solution (B kt n bioet g du h L l h Loe u g) P l ka g | 1 k 10 78

The author found that 1: titro Lugol's solution is fifteen times more bactericidal than a 5 per cent

uncture of rodine solution

Staphylococci from boullon culture a hich were ded were killed after from one to one and one half minutes and the spo es of the bacillus subtils after is hours. When Lugols solution was mixed with equal pa is of sette faud the effect was similar to that of a 1 roco sublimate solution and the st phylococci were destroxed after forty five minutes.

utes

The effect of Lugol's solution upon tubercle
bacill was det rmined on sputum containing nu
merous bacteria S me of this sputum was treated
ith antiformin and some of it merely stirred in a
mortar The died by this were exposed to the

pu e Lugol's solution for one half one two three and four hours. The watch glas is were then rinsed with sodium thosulphate and normal sod um chloride olution and subcutaneous inoculations over mad into guinca p.g. All of the control animals became diseased but the others were still healthy after six months.

On the basis of these findings the author has used injections of Lugol's solution in the treatment of tuberculous ab cess
The results will be reported later

| JURASZ (Z)

Graham C F Tetanus Its Etiology Prophy laris and Treatment with a Report of Cases

Predisposing causes of tetanus are (1) punctured lacerated and obtused wounds especially of the head and extremities which have been contaminated with the particles of clothing et (2) gunshot wounds especially those due to blank cartridges (3) wounds containing foreign bodies (4) wounds received in or near stables; manure juts hog pens chicken coops and in fields where horses or cattle have been kept (5) wounds contaminated with sitred dirt and (0) vounds in which there is considerable to younds in which there is considerable to the contaminated with sitred dirt and (0) to considerable contaminated with sitred dirt and (0) to considerable contaminated with sitred dirt and (0) counds in which there is considerable contaminated with sitred directions of the contaminated with sitred directio

The eximp cause of tetanus the tetanus bacillus produces a town some of which entering the circulation becomes fived protoplasm of nervous tissue and some of which is absorbed by way of the peripheral nerve flament and traveling along the axis cylinders to the nerve center becomes fixed to the nerve cells thereby produ ing the characteristic ner

yous manifest tions

The most important treatment is prophylaxi All sound should be well opened thoroughly cleaned with hydrogen peroxide cauterized with phenol and jodine and then left open to heal being dressed with a loose dressing that vill not exclude air wound is extensive a dres ing vet with Dakin solu tion may be used I henol solutions permanganate boric acid and bromine water solutions are also re commended The wound should be allowed to heal by granulation A prophylactic dose of tetanus an titoxin I 500 units should be given as soon after the injury as possible and if pus develops in the wound or if it is uncertain that all foreign matter has been successfully removed a second prophylactic dose of 1 500 units should be administered on the eighth o tenth day

The diagnoss is made on the climical history of a wound of a type favoring tetanus and the development after the p oper incubation period of tone passans of the follow ing mu cle groups not necessarily near the vound the mas eters the posterior cervical abdominal and spinal muscles and the flevors of the extremities. The condition must be different tated from stry chaine possoning and tetant.

In the treatment a nourishing diet and fluids are indicated. The wound should be opened and freely drained. The medical or symptomatic treatment of acute tetanus is mainly pallittive. Hypodermic or intrasp nal injections of magnesium sulphate solution which usually stop the spasms are not with out danger at step shave a dipressing effect on respiration. The best results have been obtained from theoroids anticions interatment as soon as the postumits should be given intravenously and 100 000 unitations. Colling intrame colaris.

ANÆSTHESIA

White J C De Etherlation by Means of Carbox Di xide Ini alail no with Som Obs. r vations on I ilmonary Ventilatin and I ther Tension During Americasia A & S 2 023 il str

Since ether is liminated cheffy through the lungs it rate of elumination must vary directly with the volume of pulmon ry varifiation. It is ther fix logical to supply to the inspired ur small guantit es of carbon down lew hich acts as a natural stimulus to the respirat ry center. Laboratory fin lags and the chinical results in forty cases in which this was done have demonstrated the effects of this techniqu.

The method describ d is in licate 1 (1) when the respiration is definitely subnormal either from reduction of the free carbonic act I or from depres in a of the respiratory center other than that due to the administration of either as in cer bral cases (2) in the caces of per one who have held exec view die com fort after previous either anexthesis (3) in cases of central herita and large ab Journal's wounds which

make omiting especially undesirable and (4) in cases of shock and toxic conditions in which the deleterious effects of ether must be minimal

The method is contra indicated in cases of excessively high blood pressure severe cardiac complication operations on the chest and respiratory passages and severe acidosis

The technique employed consists in supplying car in such easily controllable amounts that it stimulates policy of the controllable amounts that it stimulates policy exists the controllable amounts that it stimulates the carbon discount of the controllable amounts from a voidation of the carbon discounts of the carbon

M restudy is required before the actual practical value of the method can be definitely known but on the lass of lotty cases the author draws the foll wing conclusion.

The use of carbon doxide to accel rate ditherrazion I/s stimul ting re-pursion conders the following bein fits: (i) the volume of re-pursion consciousner is from three to five times more rapid (i). It lood jets et circulation and rolo are mate that the control of t

G OR ER MCACLETT M D

PHYSICO-CHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Wood F C. Fu ther Studies in Radiation Dos

This article pre ents the results of tunders recently carried on in the Crocker Institute of Caneer Researchins hichanimal tumors a result assumed to the experiments were made with a commercial machine running at 1 o 2000 tolls. Repeated determinations of human ent thema doses showed that about fifty ministes with a 40-cm skin focus of stance 5 machine the tube. I min of zince plus 1 mm aluminum give a good erithema. Under these end aluminum give a good erithema. Under these end in the control of the control of

In attempts to determine the effect of scattering area in add ton sub tances it has no borrow cap active approximately that of human tissue were used When a blo to plaraffin as a room thick was inter posed to cm above the tumor with a to by to cm field it was found that the doe required to kill all the tumor cells of the manufact and fact that the companion of the companion of

as or waters and a solution everythems does were necess in to hill all the cells Secondary adultion from bolo apparents supplied the additional does required. Since in man a single erythems does to sufficient to cure a basal cell carcinoma which does not contain a pearls t would apper that the tumor is sue used as an indicator is about three and one half to four times as resistant to irradiation.

When the tum r t sase was placed between two blocks of parafin to em thick and the rays were allowed to st ike the tumor material through a to by 10 cm opening the sk in focal distance being 30 cm and the distance to the tissue 40 cm the dose was 500 minutes instead of 675. This demonstrate! the importance of the scatter even through a compact to the stand opening nearly one half of the effect! eng due to 1t. When the lead opening was increased to 18 by 18 cm. the other conditions remaining the same all of the tumor cells were killed in an exposure of 40 minutes in the last too series.

f experiments the skin focal di tance being 30 cm an excessiv dosage would strike the surface corresponding to the skin therefore a large number of portals of entry would be necessary to obtain the desired amount of a radiation into the depths. This may be partially ob sized by increasing the skin focal distance in his chase the differences between the skin and of pith do e void become less.

These experiments show that a point is being reached where theoretically all of the cells in a

tumor can be killed even at 170 000 volts. The permanent cure of center means the direct destruction of evers living cancer cell. Whether this can be accomplished in practice can be determined only from the clinical application of such frets as have been demonstrated. Radiation suckness and the effect of the rays upon normal tissues visit and necessarily arradated simultaneously visit the tumor tissue are important factors requiring considera tion.

Withers S Certain Biological Principles of Radiation Tlerapy 1m J ke ig 1 19 3

The fundamental principles of radiation theraps presented are divided for logical discussion into three group according to whether the phenomenabear upon the physical in tological or clinical as

pects of the case treate I The physical phenomena controlling the reaction to rad ation d pend upon the amount of radiant energy ab orbe I and the in turn is governed largely by the do age administered. The profound retro gressive changes produced by rays of radium in tis suc cell are ascribed by some investigators to mac tivation of the growth promoting factors in cells and by others to an increase in the permeability of the cells due to injury done the cell walls through a nization. It is prolable that the direct effect of the incident beam of gamma or roentgen rays is practically nil and that the biological effect depends almost if not entirely upon the amount of ioniza tion produced within the tissues which is a function of the absorption and scattering coeff cients

The structural characteristics which determine susceptibility to radiation are (i) the state of differentiation of the cells (i) whether the cells are in the process of dividing or resting (3) the amount of chromatin in the nucleus (i) the character of blood supply (5) the amount of intercellular connective tissue and (6) the state of metabolic activity of the nucleus in cell which have a secretory function. These factors make it possible to preduct on a priory grounds that the growth will or will not rettogress favorably under radiation properly applied. The radio sensibility of cells depends not upon the anatomical location but entirely upon the histological picture presented.

The clinical conditions which influence the reaction to radiation may be divided into two groups (1) the e-purely local in their manifestations and (2) those of a constitutional nature. Among the local conditions are round cell infiltration around the tumor the condition of the vascular and connective usage stroma scar tissue formation local oblitera tive endarteritis and lessend resistance due to previous irradiation. Constitutional conditions in clude all those which affect the body as a whole and the efore necessarily every cell. In the treatment of malignancy it is essential to have the physical

functions of the body as nearly normal as possible According to our present knowledge all of the neoplastic cells of a tumor must receive a sufficient dose of the rays to bring about their destruction because not only can the incompletely irradiated elements become a p int of origin for a recurrence

but weak dose are and to stimulate In the practical freatment of malignancy with radium or the roentgen ray the four chief principles

to be borne in mind are as follows The pathology must be interpreted in terms of

radio sensitiveness 2 The proper area or treas for tradiation must be accurately determined

 The required dose of radiation must be placed. in the part of the growth showing active prof fera tion in order to stimulate normal t saue resistance to the invading neoplasm and obliterate the blood vessels and lymph spaces

4 The normal tussues must be p otected in every way possible so that the natural body resistan e will not be weakened by the destruction of continuity of normal tissue stroma intra and peri tumoral cellular infiltration and the formed elem ats of the blood which make up the triumvirate of tissu defenders

These must be conserved and stimulated In conclusion, the author states that in the treat ment of neoplastic conditions the use of radium and the roentgen rays is just as radical and rational a procedure as the use of other physical gents. In a given condition it requi es the same surgical judg ment as the corresponding surgical treatment but a more complete knowledge of the pathology present and a broader biophysical tra ning

ADEL II HA TING M D

Wood F C The I imitations in the Radiotherapy 1 1 kSt / J M 93 of Cance 446

The period of uncritical optimism regarding radium therap) is rapidly passing. The limitations in radiation therapy are in pa t physical in part d e to the sensitivity of the patie t to radiation in part due t the anatomical relation of the tumor and in by far the most important part due to the resistance of the tum r to radi tion A cure can be obtained only through destru tion of the ells of the neoplasm itself there is no evid n e of immunity to cance. The onnective t saue clerost produced by heavy raying does not dest oy the few cancer cell remaining

The application of the amo nt of av nergy necessary to destroy the tumor is mo t eas he do c by ms rung the ad um into the tumor Ues of radium are still f r from ag e ment as to the relative ments of the inse tion of emanat on in glass spicules and the use of the element w th various metal sc eens In the use of either no rays traverse normal tissue except those that escape from the tumo itself and

certainly no beam of ray penetrates normal tissue as is the case when the \ ray is employed

The lethal action seems to depend not so much upon the length of the \ ray or the gamma ray of radium but upon the amount of energy set free in the individual cell. In X ras work the low voltage usually seems sufficient the high voltage treatment is therefore re erved for the treatment of deep tum rs The tendency seems to be as ay from volt ges above 200 000 these being used only for the deenest Every radiologist knows that certain persons do not bear rad ation well and that there fore in such cases deep therapy is out of the question Cachectic persons do not withstand de p radiation well Heavy radiat on may cause death within a few weeks as the result of progres e anam a nausea and the developme t of a condition resembling uramus. The fict that because of the long strain the bone marrow ceases to function

properly is no doubt an important factor

The site of the tumor is an important factor in

radiat a tumors of the liver and stomach for instance cannot be irradiated heavily becaus of the se ious damage that would be done to the pancreas adrenal and sympathetic system In a number of case such radiations h ve caused d ath following symptoms res mbling those of Addison disease. The results in carcinoma of the st mach have be a so unsatisfa tory that e in palliative treatment is un ise Radiat on of tumo scalo bose and br n s asso rated with the danger of causing aloo cia and injury to the thyroid pitu ta 3 and salivary glands. In such cases th re f re \ ray treatment can be only palliative. When rad um can be buried the palliative results are better In lingual and tonsillar cancer excellent and pro longed palliation has been obtained in rare in tances Carcinoma of the lip can be cured locall by radia tion but it is fa wiser to excise both the lip and the nodes. In ases of tum rs of the e tremties full radiation is possible and gives good p litativ results a me claucs aduat even p rabl sa comata of the extremities

Rad at on therapy 1 I mited al o by the b logs It h s b en shown that hate er form of radiation or filtration s us d the same tumor is killed by the same multiple of the skin erythema dose. Thus r d um off rs no advantage. et \ ray except th t it can be inserted into the substance of the tumo and causes les gen al dam ge to the body thin a poerful bam of \r + which is passed throu h normal he lth ti sues to rea h th tumo Basal cell tumor of the skin ar radio in the and a on per cent of the cases a e cur d by rad tion Lymph sa comata are often r disn ti e ton shing rults a e ve y highly vascular t mo often obtained t mpor ily because the [rimar] act n of th r diation p odu es c pillary throm bost wh h shut off the blood supply f th central parts of the tumor Eventually howe er this leaves a shell of tumo cells surro nding the tumor and success depends on the possibility of destroying

the shell entirely. The yidely heralded carcinoma. and sarcoma dose of Seitz and Wintz 1 rapidly being ahandoned Tumors of exactly the same histological structure often vary greatly in radiosen itiveness Until more I known with regard to radio ensitive ness of tumors rad at on therapy is largely empirical and recourse should be had to surgery in all case of malignant tumors that are operable. On th other hand all inoperable malignant tumors should be subjected to radiation

The present field of radiation : the palliation of inoperable tumors and prophylactic postoperative treatment We may look forward vith confidence to greater achievement in the future. In the treat ment of cancer our hope at present hes in earlier diagnosis prompt and more exten ive surgery and in suitable cases judiciou po toperative radiation 1 TAMES LARKIN M D

Case J T An Appra sal of the Newer Methods of Deep Roentgen Therapy \ I & M J & M d 0 3 CT 368

In Case 5 opin on the outlook for the future of deep therapy is good

The ne method as ume a voltage of 200 000 or

more volts through the \ ray tube with the pro duction of very penetrating rays A practically homogeneous radiation 1 obtained by the use of filters of the denser materials The author employs o 5 mm of copper and 3 to 4 mm of aluminium Through an increase in the target skin di tance and the use of larger skin areas advantage is taken of increased scattered adiation to obtain a greater depth dose

There is great need for a biological standard The pre ept stand rd of a skin erythema dose is un table and differently interpreted by different roentgenologists. The best guide at the present

time is the table of Seitz and Wintz Op mons differ widely on the quest on as to the length of time th t should be con amed in the admini tration of a cou se of intens se treatment cove ing for example nin to fourteen hours. At ne ext eme are those who reply one or two days while at the other are tho e who divide the course into three series gi en at six weekly interv ls Case prefers to give intensive t eatment as rapidly as is compatible with the patient's comfort and thi usu Ity means an interval of fou to e ght days

The newer m thods of deep roentgen therapy are mor effective in po toperative cases than radium unless normous quantities of the latter are avail able. It is a robable that malignancy can be tracked best by radium from the inte for and by the \ ray

f om the sterior

R entgen into ucation damage to the sk n serious blood changes intestinal disturbance and the st mulation of metastasis are mentioned as possible dangers Roentgen into ication is a distressing but not a dangerous complication. Fer kin reaction have been encountered and their danger is not as great s that of insufficient dosage. The blood

changes and intestinal disturbances are temporary Statistics indicate that the danger of causing meta stasis is not increased

In Germany deep roentgen therapy has been in use for about five year Opitz and Seitz no longer operate upon uterine cancers however early their CHARLES H HEACOCK M D stage

Deep Roentgen Therapy and Skin Del Buono P Reactions im I Rotten! Q 3 x 745

There is no true idiosyncra i to the \rais Hypersensitivity and hyposensitivity are better ex plained by a disturbance in the equilibrium of cells than by any specific or selective action. These dis turbances may be due to disease a toramia nutri tional disturbance local yeaknesses as in trophic di turbances or the age of the cell

I selective action is manifested on the endothelial cell lining the blood and lymphatic vessel Adipose ti sue al o seems vulnerable if it is present in excess and covered by loose flabby skin With the advent of deep therapy the dangers from these factors is increased Years afters and skin necrosis may re sult from injury to the underlying structures especially if there has been trauma. Skin that has been subjected to strong radiation should not be radiated again and should be protected from external injury which may impede nutrition and delay or stop the proces of recovery

The author reviews the literature but does not give specific references

CHARLE H HEACOCK M D

Muehlmann E and Meyer O Roentgen Ray Injuries of Deep Tissues (B tr ge zur Roe t ge h edigu g t fgel ge G webe) Stahlen the bi 923 V 48

The authors report a case of severe injury to the intestine due to deep oentgen treatment of an inoperable carcinoma of the uterus in a very obese wom an Three months after the fi st three series of irra d ations bleeding f om the anus occurred but ceased in four ceks A second treatment of three series was follo ed by colitis severe intestinal hæmor rhage and death at the end of eight weeks. Autopsy showe I annular necrosis of the sigmoid which had become adherent to the shr veled uterus and the swollen abdominal vall two ulcers in the rectum marked distention of the large intest ne a purulent phlegmon of the wall of the carcum circumscribed purulent peritonitis th ombs in the renal and fem oral veins and severe anamia. The field irradiated vere highly pigmented and overlapped No remain ing carcinomatous tissue was found

A second ca e repo ted was that of a soldier who d ed of injury to the larvax due to roentgen treat ment for parasitic syco s folloring unsuccessful treatment for a year by hel otherapy and an un kno n but pr bably small quantity of roerigen rays Four epilation doses cause I an exten ive loss of epithel um (23 by 1 cm) redness and sn lling of the face hourseness and great difficulty in swall lowing As an area of ulceration was still present at the end of two months. an attempt at transplantation was made under chloroform anesthesia. This op ration was followed by renewel difficulty in si allo ing dispince and sivelling and tendences of the neck. Death occurred at the end of six we is Autopsy showed necross of the major portion of the larging all mucous in mbrane and ary tenoric eral and marked ordems of the aryspigliotic fold and lengibits. Death wis due to suffication.

According to Meyer neither the histopathological changes nor the obliteration of the vessels which part cularly in the intestines is associated with marked thickening of the vessel walls a character

istic of a ro nigen ray burn

The Ledurati n of fat of the lot e portion of the abdomen and in the neck in these cases occurred only as the cumulative effect of repeated irradiation of the area. It is not pathognomou of \ \text{cay} in upry \text{ Muchinam attributes the sensitivity of this fat to its poor blood supply and to see nd ry injury movements of the trunk and head \text{ H rise (2)}.

MILICIAN

Fernau A The Biological Points of Atta k of the Radium Rays (D b i m ch a Angraff punkt d r R dhum t ahl) Si ahl ih ap 2923 x

On the basis of experiments with hera seggs Schwarz Wohlgemut and Mesemuky conclude that lecthin is the point of attack of radium rays Fernau and Pauli found that the changes occurred not in the lecthin but in the albumin and gluten of the ray of solutions and were most marked when the salt content temper ture and concentration

of the solutions were low.

In a milar experiments Fernau found that radia tion increases autoly as If the assumption is core cit that the ferments are protein substance with high er rgy the increa cid autoly a is due to the energy added by the raying Fernau ascribes the eld cit eation of the taxs on carcinomatous issue to an increase in the act vity of the autoly tie ferments. This is indicated by the results of experiments made by Fund and Herity Ereund found that ray destructs of carcinoma tissue dissolved case recili whereas unity and extracts do not. His way to the results of the contribution o

Gl sser O Newer Investig ti ns of Gamma Ray Dosage of Radium J Rad of 923 3 6

The author has previously reported in thods of gamma ray measurements which have given undernly consistent results in their application. In this art cle he reports the results of a series of measure ments with a differ it comb at on of capsules.

is it was observed that scattered rays caused an increase in the drect dosage calculations could not be made on the basis of distance and absorpt on only. To measure the total dos e the di tribution entirely around a given raid im capsul or around combinations of several capsules must be known.

Curves resulting from connecting points where equal do ages are delivered in a given time have been designated isodoses. Se etal such isodoses of ingle capsules and various combinations are illustrated by diserans.

The con lusions drav n are as follor s

1 The points of equal doses do n t run parallel to the surface of the capsule but show charactert ite deviation caused by the ab orption relations in the radio act; e material and in the flier. The dose delivered to the adjoining tissues at the end of the capsule is only about half the dose delivered in a given time at the midpoint of the

2 Th 1 od ses make it possible to determ ne immediately the exact dosage delivered at every

point of the yed me lium

3 In shape number and manner of combination of the capsules ar impo tant factors in determining the irm of the rodos. In this the strength of the preparation plays no part.

In conclus on the author mentions that the iso dos s of radium emanation builds are entirely direr ent on a count of the small be rition in the gas. The form of the isodos with ad um emanation builds must be more en and almost parallel with the surface of the cort it.

ADOL H H RTUNG MD

Gargano C The Changes Produced by Radium in the Cells of Epitheliomata (L kreano i podott dall d m del d ll llul d gh p telomi) i lid h g 3 1 930

Gargano reports tw cases of arcinoma one of the temporo-ma eter region and one of the uter recervix which were t ated with adium and sub-

jected to several biog : at nter als ranging from two to six week following the radiation

Though there as a temporary p r od n whe the pain discharge and bleved ag ceased h was unable to note on m cros opic temporary properties of the pain there is no fine pain the result of the pain there is a temporary in m in letation of apparent arrest of the growth ret us a tempor in m in letation of apparent arrest of the growth and m g n amon of the pain there is a temporary in m in letation of apparent arrest of the growth and m g n amon of the growth are the pain of the pain the pain the pain the pain and the pain the pain and t

Catgano: inclined to the opinion that the rays are unable to penetrate to the deper lay of epithelm and the therefore only the superficial areas 31 ld to its influence. However, the superficial rounds to force as be hase a mind has been mild his unable to dr. w. a. definite con l sions.

JAN VRCMD

Ishido Th Action of R di thoi m pn Jints
(U b d W kugd R d thrim f de
Glnk) St hic th p 0 3 537

After comp rative xp riments on the effe t of injecting after nit ate Be lin blue in 1 pin

son of talcum in water into the joint spaces the
author injected both soluble and insoluble solutions
of radiothorium into the joints of rabbits and studied
their effects on the cartilage the synovial mem
brane and the fat bodies. It was found that the
active substances were taken up by the synovial
membrane and fat bodies which acted as protectors
of the cartilege and bone and underwort hyper
semis attophy and accross? The cartilege are
were attophy and accross? The cartilege are
were according to the control of the control of the
coming changed only after the synovial membrane
lost its power of resorption.

These findings the author believes help to expluin the therapeutic effect of radio active substances in chronic joint diseases with regard to the resorption of exudates and the breaking down of pathological formations

MISCELLANEOUS

Kellogg J H Should General Hospitals Establish Departments of Physiotherapy? M d Hosp 19 3 xti 512

A department of physiotherapy may not be needed by every hospital but every hospital needs physiotherapy and a physiotherapist. With this introduction Kellogg presents a most illuminating and significant paper. He emphasizes the fact

that with the exception of a few specifics medicines cure only when they aid in changing pathological processes into normal physiological processes. Physiotherapy is far more rational and more efficient than drug therapy.

Hydrotherapy is one of the most versatile a well as one of the most potent of curative agents B3 its use it is possible to control the temperature of the entire body or any part of it even with such simple means as a wet cloth. Phototherapy and aerotherapy are rapidly gaining advocates. All of the benefits of sunight may be obtained by the ved artificial lightissach as the arc light the Cooper ved artificial lightissach as the arc light the Cooper basypital in the north can continue phototherapy during the collect half of the vear.

Electricity is used as a means of increasing metabolic activity. Of the many modalities dia thermy and the sinusoidal current are the most efficient. Mechanotherapy like electrotherapy has suffered at the hands of charlatian. In the treatment of certain cases of paralysis and paresis thas proved a very efficient and to electricity.

I rophylactic physiotherapy is of paramount importance

A progressive hospital must place emphasis on physiotherapy and provide proper facilities and a properly trained personnel

LIEWELLYN R LEWI M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO

Glebowits h W A Blood Changes in Sp nta neous G ngrene (E) b Bl t aender g n b i (ng a n pont e) leh dl d R Ch I g P tog d 9 3

In spontaneous gangene the blood sho s plus cal chemical and microscopical changes and starker than normal. The visc sity and coagulabulist are increased. The osmotic resist inace of the eryth rocyte shows the conflictents of particular other and the color index are 1 w. In some cuses the lenecyte count is greatly microsed. The ratio becomes the color index are 1 w. In some cuses the lenecyte count is greatly microsed. The ratio content of the color index are 1 w. In some cuses the increase. Carbon dioutie is found in excess. In addition there is a distinct clearidation of the blo d stream and a disturbance in the co tractility of the capillaries.

The author comes to the conclusion that the changes in the blood ar due partly to a still unkno in to in and that the increase in visco ity co gula blits and cont actility ire lue chiefly to the excess of carbon d xide.

Spencer W G M lanosis Mel nin Melanoma
Melanosic Cance B t W J 923 8 997

Melann 1 obtained for study fron m c rated negro skin th into fth cuttle fish or melanout tumors. It consist of one p t that contains sulphu and nother that turns bla k on oxidation. From all traces of blood melann gives no e ction for iron and blood pigment play no relie in its for mation.

The author considers that m lamm originates from a colorless substance all d m lanegen v. ch is closely allied in emposition to defending and becomes melanin by oxidation. Bloch held that melanogen is coverted into melanin ithin the cells by an o disse erayme. On expo ure to air the urine of perso s with se endary mel notic can return start, by oxidation.

cet cutra stark by the domain of melanin from melaniner man be prod e do behenical agents such as tyric melaniner melaniner man be prod e do behenical agents such as tyric da pa has be nu ed as a stan to the start of the start

Melanotte pegmented cells originate from the spidermis and pass into the dermis and deeper tis ues. Mesoblastic cell take up pigment by phag octo is except in cases of melanotic cancer in which they divelop the ability to form melania Collections of gogmented cells scattered among the internal organs and structures reached their location purpose.

Tropical races have much pigment while those lung in cold regions have scattered collections. It is considered that melanin of the skin protects it is considered that melanin of the skin protects the central nervous system gainst sund ght and injury by ult aviolet rays. I igmunt occurs in the pia mater of the base of the bra and on the cervical ruld lumbar spinal co d about neries and g ngila in the eyells in the value of the heart and large the retropershoral and mesentiers conner tust tissue and in the lungs liver it that and escondage.

Pathological melan n formation is noted clini cally at the site of a body louse bite in increased skin p ementation in workers in poorly ventilated coal tar factories and in the pigmentation follow ing arsenic treatment. The effects of ultraviolet I ght rays vary with the melanin already present Brunettes are not so easily sunburnt and do not become as eas ly freckled as blonds. Changes of pigme tation occur in endoct ne disturbances-adre nals (Addison's di ase) and thyroids (exophthal mic goiter) in diseases of the liver and of the female genital organs in c chevia and in the skin of per sons undergoing the open air t eatment f r tuber culo is 1 idely dis eminated pigmentation has occurred in the course of generalized melanotic cancer The brown p gmentation in the heart muscle and the I ver and under the muco a of the c lon is mel ni not hæmosiderin

In the autho s op non adrenal n and melann as de ever defrom the sam substance. When the adrenal c ase to t ke up this subst nee it collects in the pulcames as mi lanopen to form melanu by ox dation. In Add on a di case and after the remail of the adr nals the shin be omes darkened by the formati n of pigment in the ep thelial cells A olution of melann has a waker effect that are rabbit h art er abbit h art er abbit h are creftered in the rabbit. I have creftered on the rabbit h art.

The color of the h ir d pends upon whether the genetic cells form melanin o not. The loss of pg mented har n g ay ho see is usually a sociated as ge advances ith the dev lopment of melanotic cance. Horses those h ir rem in dark racly have this condition.

I igmented nævi are prone to u d go malignant dege er tion nto mel notic c nc r Melanomata are more common among dark than among white races Pigmented spots acquired after puberty or late in life may also become malignant

A few cases of great resistance to the extension of melanotic cancer have been reported the subjects living many years after excision of the primary

growth and several recurrences

Melanotic cancer of the e) eball usually metasta sizes to the liver and runs a rapidly fatal course but cases of survival for ten twelve sixteen seven teen and twenty four years have been reported

Melanoma and melanotic cancer occur in the hard palate olfactory mucous membrane anogen ital region and pia mater of the brain and spinal cord. Melanotic cancer of the abdomen is usually

cord. Melanotic cancer of the abdomen is usually secondary

Free and early excision is not followed by recur
rences in situ except in malignant cases in which the

disease has spread widely
Walter C Burker M D

Renaud A Statistics on Cancer in Switzerland 1901 1920 (Quelq s renseignem ts stati tique su le cancer n Suiss de 901 à 19) Rev ned de la S se R m 19 3 xl 43

In Sutzerland 4 900 deaths occur annually from carcinoma and 300 from sarcoma These 5000 cases of malignant tumors are about equally durided between males and females but on the bases of the population the percentage in higher for statistics and these of other countries but the general impression that cancer is more frequent in females than males is due to the fact that females are generally attacked by external cancers which are more difficult to recognize but are now being males are remerally attacked by deep cancers which are more difficult to recognize but are now being ampliance candily by modern methods of examination.

The annual 5 000 fatal cases in Switzerland re present 12 8 cases of every 10 000 inhabitants or 1

case to every 780 of the norulation

If only persons over 40 years of age are taken into account there are forty five deaths from cancer among every 10 000 inhabitants or about one among every 220 inhabitants

These figures represent 9 per cent of the total number of deaths and 14 per cent of the deaths of

persons over 40 years of age

The ratio of 12 8 cases to each 10 000 inhabitants is higher than that given by any previous Swiss statistics (12 4) and than that in any other country at the present time (France 7.8 Germany 8.8 England 9.7 Belgium 6.6 Spain 5. Italy 6.5 Holland 10.6 Sweden 9.8 Austria 8.0 Japan 6.4 United Systems 1.

6 4 United States 7 4)
The increase in the number of cases of cancer noted in all count ies is probably only an apparent

increase due to the increase in medical resources.

The increase is due to the deep visceral cancers the incidence of external cancers has increased only slightly or has decreased.

The chief increase in external cancers has occur red in cancers of the breast. These represent 14 per cent of cancers in women.

Cases of cancer of the alimentary canal constitute more than three fourths of the cases of cancer in man and more than one half of those in woman Cancer of the esophagus and cancer of the stomach are more frequent in the male while cancer of the intestines and cancer of the gall bladder are more common in the female

The incidence of cancer of the female genital organs is stationary it constitutes about 20 per cent of cancers in women Florence Carpenter

GENERAL BACTERIAL MYCOTIC AND PROTOZOAN INFECTIONS

New G B and Figi F A Actinomycosis of the Head and Neck A Report of 107 Cases Surg Gynec & Obst 1923 XXXVII 617

The authors have come to the conclusion that actnemycoss of the head and neck is the most commonly overlooked condition of these parts this is demonstrated by the fact that in roy such cases examined in the Mayo Clinic the condition had been previously recognized in only seven the number of cases diagnosed in the Clinic has grad uslly increased from two in 1913 to twenty in 1912. Ninety eight of the roy patients were male. He ages ran ed from 160 for 1914 to 1914 to

Since the process is often extensive it is difficult to group the patients according to the area involved. The top cases constituted 68 i per cent of 157 cases of actiomoryons of the head and neck examined at the Clinic during the ten year period. In 34.6 per cent of these the conditions involved the parotid region and check in 31.7 per cent the cervical region and in to 2 per cent the submavillary region. In six cases the tongue and in two the nasopharyan was involved primarily. Seventy-eight per cent of these patients were farmers and 9 per cent were laborers.

In the author's opinion the infection is carried into the tissues by an injury very frequently with the introduction of a foreign body. A history of such as injury was chiefted in a number of cases

The clinical history in cases of actinony costs of the head and neck varies with the virulence of the infection and the amount of secondary infection. The cordition may occur as an acute phlepton or may be a slow indolent proces of seveloping in the ocurse of months. The chinarten tie picture of an indurated mass which later breaks down developing multiple superficial abscesses is probably the most common. The most common symptoms are stiffnes in the region, involved pain and swellure.

The diagnosis of actinomy costs must be based on the chincal pi ture the finding of the sulphur gran ules and the microscopic demonstration of the actinomyces. In the group of cases presenting the classical symptoms and clinical preture the diagnosis is simple. Many cases require prolonged observation for corroboration of the chinical evidence. If a fresh pocket can be opened the sulphir bodies are usually demonstrated lessily but if there is a great usually demonstrated lessily but if there is a great of the control of the con

The di ase may simulate almost any condition occurring about the head and neck retro-orbital tumor a malignant mass in the temporal region a subneriosteal abscess of the scale and mestoid region mal gnancy of the nasopharynx an injected eyst of the tongue cancer of the tongue a tumor at the base of the tongue suggesting mal gnancy a sarcoma of the upper 11w and parotid region osteomyelitis of the lower jan a chron c phlegmon of the submixillary region secondary to the extraction of teeth a phleomon of the cheek secondary to over then treatment a chronic phlegmon of the cervical region secondary to topsill ctomy bilateral cervical adenitis secon lary to flu (?) and suggesting malignancy a chronic indurated cellulitis of the neck a carcinoma of the cervical region recurring tuber ulous adenitis b lateral malignant lymphoma of the neck a thyroglossal duct sinus tuberculous the road tes and cancer of the there d When there is meningeal or chest involvement other problems arise in the differential diagnosis

In early diagnosis is the most important factor in obtaining good results in the freatment. Intracramil or intrathoracic extension may develop in The treat advan ed cases in spite of treatment ment is emprical consisting of the application of radium to break down the granulomatous masses and to as 1st in cleaning up the induration A saturated solution of potassium iodide is given in gradually increasing doses of 10 to 200 drops three times a day and as soon as softening occurs the abscesses a e drained freely swabbed with tincture of sodine and packed open with sodoform gauze Swabbing with tincture of todine and packing with iodoform gan e are done daily. The condition was cleared up in this mapner in practically all except the advanced cases in the series in which on account of the proximity of the primary lesion to the skull or the chest th infection had extended to the F A FIGT M D men ages or the thorax

Wakeley C. P. C. The Treatment of Actinomyco is by the V. Rays with a Report of Nine Cases V. R. R. d. J. & El. J. Jh. r. py. 1923 X. 1. 129

In actinomy cois roentgen ray therapy causes the disappearance of the induration around the sunues and soltening of the scar tissue. It should be combined with other measures such as excision or scraping of the sinuses with the injection of \$ per cent rod ne in alcohol where possible and the instrumental administration of large doses of potassium notified.

Of the nine cases treated by the author the jaw was involved in three the side of the neck in one

the lungs in two and the appendix in two Two of the patients with actuaris costs of the Jaw recovered complexity. The third deeper crysterias and an epithelians at the site of the patients did not patient with a lesion at the sale of the did subsequently. With a windows suggesting like the volvement. Both cases of early involvement of the lung proved fatal. The two patients with action mycoss of the append's were cured. The d tailed histories of the line cases are given

ADOLPH HARTUNG M D

DUCTLESS GLANDS

Demel R Jatrou S and Wallner A Experimental Studies on the R I floor of the Ovarles Adrenal and Thymus to the Through la Rate (Be chungen dr O Nebe n n ad des Thymus t Thyr leab i Ratten E pre tetle Studie) M u d g b d W I Ch 9 3 XX 1 356

The experiments reported were performed on fits one rats It was found that b lateral cophoractomy caused a slight mere e in colloid. In young animals onophorectomy and thy mus implantation mide such demands upon the young throad by the change in the rec procal action of the end crine glands that it seels are not equal to the altered requirements and a transformation of the throad takes place. Too rand a transformation appeared to be the cause of the devil of some of the ratio be the cause of the devil of some of the ratio arms of the process of the samulate survived possibly because of a slow adaptation of the cells in the new trouvement.

When but Ittle of the transplanted thyrmus remains alive the transformed thyrout is a colludgoter but wh a the transplanted thyrmus is off strands or click deport of the strands or click deport of the strands or click deport of the strands or the animal is unable to accommodate itself to the changed requirements following bilateral onphore town and byrmus transplantation and compensates for this stability by calazing its a reting surface of this stability by calazing its a reting surface.

In a pregnant cophorectomized animal the thy ro d was found very rich in coll id (colloid l'ke struma) four days after the oper tion but two months later two-thirds of the thyro d suggested the picture of a colloid at uma and one third that of a parenchymatous struma Bilate al cophorectomy with thymus transplantat on a pregnant animals caused besides a struma resembling both the colloid and parenchymatous types an increase in secretion (droplets of secretion in the colloid particular) at its margin and in the pr toplasm of the cells if the firm portion between the foll cles) copho ectomy thymus transplant tion and unilat eral resection of the agus the collect on of collo d was less than when r section of the agu was not done

A reduction of the chromatiin system by the removal of one advenal gland in animals subjected to bilateral oopherectomy and transplantation of the thymus caused an increase in the function of the thyroid gland but this was less than that occurring in pregnant animals subjected to bilateral oophorec town and transplantation of the thymus

STECEMANN (Z)

EXPERIMENTAL SURGERY

Schafer Sir E S The Relations of Surgery and Physiology L cet 19 3 ccv 9 5

From the time of Harvey it has been conceded that animal experimentation is necessary for the advancement of medical science. Many of the older surgeous relixed to believe that an operation upon the lower animals could be of value in obtaining information which might be useful in a similar operation upon man. Sir Victor Horsley was born at a time when the importance of animal experimentation as a guide to surgery was beginning to be recognized.

Not long before Horsley became a medical student David Ferrier reported a series of investigations on the mechanical stimulation of the creebral cotter. The findings of this research reduced the view held by physiologists at that time that the entire cortex functions as a body and that the different centers have no representations int Prevously on the basis of observations in traumatic spilepsy Jackson had suggested the possibility of localization.

When he accepted the Chair of Physiology at University College London the author was interested in the problem of the removal of definite areas of cerebral cortex and desired the assistance of a colleague who had training in Listers methods of a colleague who had training in Listers methods of a colleague who had training in Listers methods to accept the colleague who had training to Lister the Moston of a colleague who had training to Lister and Listers who had been colleagued to the colleague who had training the colleague and the colleague and

cupied with the duties of private practice teaching etc but the experience he gained in the laboratory was invaluable to him when he received his appointment as surgeon to the Hospital for Nerrous Diseases in Queen's Square London

In 1833 Vector Horsley was appointed by the Chincal Society of London as a member of a committee to study experimentally the effects of removal of the thyroid gland in animals. The report of these experiments was not published until 1858 probably on account of the fact that the results following the removal of the gland were indefinite. Some of the animals became aparhetic but others became acutely nervous and died in convisions. Unfortunately the parathyroids were then not known to have a definite function and what Horsley supposed to be but different phases of the same condition were due to the removal of the parathyroids with the thyroid gland.

The eminent surgon Joseph Lister who was a student under Sir William Sharpey and trained as an experimental physiologist made many scientific investigations in this field. This included much pioneer work with the microscope and in the preparation of histologic specimens for examination. Probably his most distinctive work was done on the physiology of absorption from the intestines the vascular changes accompanying inflammation and the congrigitation of the blood.

In Listers opmion surgery could advance only through the aid of animal experimentation. So sure was he of this that when he was asked for a public declaration against revisection by Queen Victoria he gave his weeks in no uncertain terms. In the report before the Royal Commission he lower animals that he was enabled to perfect his system of aniseptic surgery.

In conclusion the author emphasizes the necessity of teamwork between the physiologist and surgeon in the advance of research

WILLIAM J PICKETT M D

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFL ENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN AR TRACT OF THE ARTICLE R FERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Least.

C nial radiog aphy R KNOY Arch Rad of 1923 x m 161
Tw ca es of fracture of the b se of the bull. BRUNNER Arch int mat d laryng 1 923 tux 1118
Managem nt of head injuries J H Fo as H hnem n

Month 93 lvm 673.
Th m ng me t ffractu e of the b s of th skull H If Kerr Californ State J W 1923 xxx 477.
Two cases of cranual t berculos s. E Sorret. M Bar PET BD I G MATTOL Bull et mem Soc. a at de Par

Osteomy litis of the f tal bon second ry to acute infects a [both frontal uses C F WARREN Med I Australia 1013 11 403

Postoperati e pa otitis L Torraca Ann tal d ch 19 3 H 1033

R t tion I the cheek by Esser method G Poror senies Ach, tal dichie 1923 viii 209 Chron c hyperpl s of the uppe jaw D GUTHRIE I Laryngol & Otol 1913 SETV 575

J Laryngoi ec Utol 1943 xxxx 575 Canc r of the uppe jaw it surg call r tm t. W S Senter S g Gyn e & Ob t 10 3 xxx 11 653 xxx 12 The treatm at f u er of the jaw with the act 1 caut ry A J Ocisives J Am Al iss 19 1 kxxx 457 Ostoosa coma f the prir maxilla F A . Exex

of G nigs appar tu Dental C smos 9 3 1 A usef 1 modificat

mental 923 l x 11 16

Eve

I du trial ophthalmol gy W 1 HUBER J Oklah ma Stat M Ass 1923 Xv 360

Am J Ophth 9338 vi 86

Wh t shall we d th the cross-eyed child L. O. Pringer Kent ky M J 923 655

A musel f lde fo strabism J W CALKINS \m J

Ophth 9335 vs 9 The co trol f pain in f netion I hype seth f the cili ry m set J Green Jr nd C Sitter J Am. M

Ass 10 3 ltxx 778
Dil tat o a d ten is I the lachrymal passages Roi LET and BOSSY Lione to 93 xx 293 [190]
The te timent facut and from cd cryocystit ad sil r can ular J F C Lianua Laryngoscope 193 xxxiii 805 [190]

The V t st f r astigmat sm and astigm tic charts in ge er l F H Vermoer Am J Ophth 1923 3 s. 1, 908

B tempo al c ntraction of fields f sas n in p gnancy M CARVILL Am J Ophth 9 3 38 885 Scre n cell I d scot meter R 1 Fevrov Am. J Ophth 1923 3 8 v1 9 6

H manop a the sole clinical featur in u tre ted seco dary yphili A W Signet a d A R Fraser Brit J Ophth 9 3 m 5 5 Am J Syphilis 1923 1

Mechal nicoti mbly pia E ADROCCE S m na med 1913 XX 320

Bli d e s i llowing ut rin hæm rrhage O Rerrlaff Zent lbl i Gynaek 9 3 zl u 484

Ophthalm myr sise terna due t larvæ foestrus
H H Stark J Am M A 923 lixu 684
Eye infi mmati ns ca ed r influ d by dental epsi repo t of ca s C P Joves Vogni M Mo th 19 3 1 547

Ocula mpl cate as f na al sanus diseas s W E LAMBERT Virgin M M th 0 3 l 532 [190 T be cul s f the ey W E GAMBLE Am. J Ophth En el ta 89 f th es ball J E JE NINGS J Mis

sound it is not so that I be proceed in the sound it is not to be the sound in the

Hamagamaca mes m fthe bt H L B E Am J Upith 0 3 3 890 Cla fi ti n f rit and indo y lit L M Francis

J Am M As q 3 lx 11 1700 Chronic mild ridocyclitis. E E BLAAUW Am J

270

Med cal tr tme t f gl c m C S MFAN Oh State M J 19 3 776 State VI 103 770
Ind ctomy glema an ten q ETROK
Ach Ophth 103 1 574
\text{\text{t tmcl d} \text{\text{yst d}}} st dy fth ptec lne
of pt 1 lem nt LEWHITE B to M. Ret.

of pt SI 923 cL 1 1911 Ad cu in net blir nt i logn PD D Davis Brit W J 923 i 873 Ret bulla urissa sated with discenses is ues EL Fata N J k W J & Wed [191] se fin sal

Re 93 cr b4

Hæm phth lm a soc t th tube ! f c in the ch rod J D CLEMMAN Brit M J 023 1 800 E t e unitate al ch n t l t phy th ring de p sel it B W Key Am J Ophth 9 3 3 5

SIt lamp m p3 fth l mg 3 ts d to l tol gc l e rcha i in ment 1 phthalm c d a no 1 R VON DER HENDT Oh State VI J 1923 1

Into trealing to the train till to pt t phy S R Gt ord Brit J Ophth 923 56
Ti tch q i e ct f nta lm c
bchird ye t J J Kfecax Brit J Oplth 93 5 2

Far

The physics of the humeth is appared to the History of the humber of the x 97 57 89 A beegmmsi tlgy dsom batrilgeal

tgt n ral Bt rro Rim md 063 1923 T. Usual form f te n purul t tt med th p c l r f e t n l me t f 1 l I F DEN r d M I BRETTSTEIN I yng pe

1024 X 8 The seftt might limit CE

PERSISS Am J Surg 93 x 8
I death sir g al terv tr a t ppu t n
of the m ddle P D kers I y g p 923

C th middle the structure of the middle the structure of the middle the structure of the labs. r th O Bec A h trn t l l yng l 923 A tem t lt CP Kt J 1m M 1

5 3 th rubo 'S th' mbo mple (smit dt ve)!

JJWN kentel VJ 93 66

Lea fmit! TI \n velled J\tl 93 4'

E fm st dd vel TGDB\x la

cet 19 3 c TORRIGIA T 1 !

et 193 c 79

Tryent mtdt Toxy

tmtdl vnl 93 009

Th det frmtd pti ant masthesa PS Sour Layngos pe 9 3 xuii 837
Mai i peat n nd 1 i sthes (WBort
III M J 9 3 1 373

JMSIRN Root R pot 4 m to t perat DMANE

Ad n labyr th de f Di Brit M J 93 %6 Og the p 1 1 ce f th nor W J Leicitov B t M J 93 99 nose 1th t Nose

Immed to a d l to treatment of n s l f ctures I COHEN LAIVINGOSCOPE 923 XXX 84

The c rection of masal d formit cs J V SHEEHAN

But M J 923 ii 95

Un ul symptoms cau ed by a f e gn body in the

n se T MAZZI A ch inte nat de laryngol q 3 xxx

Fog body graul maif then e SJ PEARLMAN dIlihot Laryng sepeng 3 xxxii 8 4 Spaot hof then e C C Albite it L vn 1 875 g sc pe 1923

Dermo leyst of the do um f then e F MARCHINI P ld Rome 9 3 xx ser pr t 1422 No et leed ep t W M Johnson N O leans M

& S J 1023 lx. 40

N sopharyng al bb oma a ! cal n! path! gical t dy P G Goldsmith J L tyng! & Ut l 1923

B salfbrod type lna ph yn, lfbr m askle tal tum H Colon V I che mei Wehnsch

An soph ryng I til manth nal petrt n prat n co ery \ Givoux nd H \toty Iy n 9 3 * 743

Rahum n the tr tm nt i malg nt t m i the n se nd th t J P RAN ON L vng cop 19 3 853

Mftt fsom cran lner es f m d sc ⊲e f then se dth t M J GOTTLIFB \m J Su h 1923 **v 11 76**

ti d the t n f th plo 1 lethm l s \ Cr nger J \m M A g23 ! 1226

A sory sides in hild A C JONES A "rth"
t Mid 9 3 1 300
Ch ne n t in hill J C Straction Ca
dia VI A J 9 8 7
I c J imprem of the thmod laby onth with

pt re t th bt G K M (NEJEZ W 1 I W

9.3 Cettag f the thm d ly tl int n sal ut I grm n l l rot \ ch nt at le lary sol 9 3

C ser t n thm d urg v 1 McCinni JId a St te M \ 91 350
\ v trument i pu ct n; i i g the
mall y t m (Highm e W Spielberg Lap)n or the

0.3 1 844 6 14

I S T C S A H chm 39 F 1:1

milm fte juct f the ma Ilay tp) J \ Bacie C! fmaSt te J \ M trum 9.3 433 t ad put t illt A IND RS v Brt

M J 923 198
B tyn 1 la resthet c1
W Hill Bit M J 1931 876 e dth at pract e

Mouth

Va fpthl maith I rlp Partas Vch t a l pint imatura rip rates a voit t nt d for good 93 1 8
The teatm t f c fth l w l p with spec I f e et d m l le troco gul ton I J Volle d I J Owes Ur l & C t n R 923 xt 688

Rad grapt y as an ad to d gn sis in rthod nt I SPENADEL R dog aphy 1923 ix 863
The effect of det o the resistance of teeth to caries
M MELLANBY Proc R) Soc. Med Lond 9 3 xv

Sect Od nt 74

Chags tooth strutuere ling frmdefice tel t J A. MARSHALL J Am M A 1923 I to 665 Oral prophylaxes a d p ev ti e dent try WRIGHT J IM M As 1923 I XII 595
Dental impact as and the sequite I Thou

J Am M 1ss 10 3 l xl 1664

lcatv 6 S

Infection disease no g in the feative of the text of t 10 3 1 XVI 474 [192]

Th contribut on foralles t c cer J \ Permi J Am M A 10 3 l v.1 485 Some been at ins in the de I pm nt I th in ulla

Some bernau hain the one i pm in the in milla clift plat cas M. N. FEDERSPITE. It eat J Orthodont O al Surg & R. d. graphy 1993 1. 847 Ope at n f. cog. i tiel fit late d. c. h. f. uran triphyl plat viac. rili gt. I an nbeck. O Stel. A. h. f. k. in. Chur 10, cc. 271 [192]

Lock, f. m. ahi i gu i ppi cc. V FERNALD. I term t I Orthod t O IS g & Rad graphy to a

Aca false fith t ge P PETRIU! Bll t mem Soc t d I ar 1923 CI 540 T berculos s f the t g GI NTO H III R me 1923 x h 33 Ca cer f the tong I I TRUESD LI 11931 46

19 3 l Cac of the tongue u der the i flue of i m el ticcoagul ton a d'Yray C W Havro D Ch g M R 1923 lv 857

The techniq e forsi rad w phy C O Statesov I ter t I O th d t O al S g & Rad gr jhy 9 3

Throat

ult fd id HPIRE F cial d f rmit J Okl homa St. te M A 1921 10 Th. to ! O W I vr W esota W d 9 3

On the mode for doing the akofout tall to I Bourter da Rier Billhill. Hosp Balt o 3 xx osp Balt 93 xx 393 Observation on t 1 f bæm lyt tept

e ed f m can is a d es during utb eak f cte to its A R FELTY ad 1 J BLOOMF EL B Il John II pkin II p B lt 023 Bacter 1 gic l bservat ns on te t n'llt ef en e to p dem l go a d sc pt b l t Bioo.srielo a d \ R Felty \ A h Int \ M d A L

Comple t oftaslita HRLos J Am M A 5 19 3 lxxx 16 5 Sarl to Ik r h f ll wo g t ll to E Moony J M so n State M A 9 3 3 6 Cart Ig nd bo c in th to 1 P Hillikowir a d H Gaves Laryngosopo 9 3 ut 8 P 1 It n I harmostat cs J W J RVEY J So th

P t It n I hemostates J W J KVEY J So in Ca lim Ma 1023 7637 An W t cide t foll w g t n llet my 1 1 I ENDON Med J A trail 93 493 5 rgc) fit t iwith pulm n ry b seeq el H C Tono J Old h m State V A 19 3 V 355

Reaso for the fall e to btan relifafter t nel nd ad d per tio I II GOLD ERGER Arch P diat 923 1 767 O ficat

O ficat of the stylohyo I I game t V VA IVI A half m t d la yn I 1923 100

N ck

Prg e ced ma f the l tynx sp cife H Sutrit Laryngoscope 19 3 u 89 \ d scus 0 pasm I the laryny Six Sr Claix

THOM ON SIR JAMES DUNDAS GRANT and W. H. K. 1804 B t M J 1921 il 712 M li ple pap llomata f the l yn H B Citt. Med

An trail 10 3 545 Ca ca m I th 1 year F J Novak III a M J 10 1 xl v 338

The time for ecnifth laryn. C BEI Arh ternat de l'ryng l 923 xx x 00 The precent technique flary geet my hid the meth is used for the operation of Source sevoral facilities and the first technique for the first fi 923 1 161 [193]

Il r pe t c ses fth that deland W & Re serry tm tid dax to There I d sorders 1 1 Barro South M & S

10 5 1 xx 558
Diff ent ldi n fthy dd ca W M Boots av An Srg 93 ltt 57
The 1t hp bet e th thyr 1 gl d nd th
f m I g n tal H ks ts W i met Web schr

1923 1 660 M It ple tage m Mitple tagem renthem gmnt fee e 19 1 7 44

J Rorts 1 93 x 875 Il mu h perpha i n t d tuetrs A

SCORAO JIndia tteMA 023 X 36 A t th tet al theory f phth Imu g t It Sees of Pratt 03 66 [199] The pthein general fichal 1 the erv 1 tm B do set 1 Host 1 tm d Sc d [196] y (m'

100 E phth lm cg t sociated with funit in I conse to fth thym dt be 1 fth thur igla d LFR t A h stald h 1932 99 The tennet f phth lm gt C Butlers
Fed md U d M t deo o g 703
Pifil th mangm t 1 thy d disorders C W

Rost JM i As Ger 03 11 444 Bemttelm it tthyrod Bemittefm it tthyrod cer J Nov γ Sil A An Γ d med Un d Mot co 9 3 AT CT&

cu the second of the second of

SSIR dHIJer Ednaly 93 7

SURGERY OF THE NERVOUS SYSTEM

Sympathetic Nerves

Pen a t rul sympathe t my I feat n and t cl iq e

I Makat Zentrall I Clr 1921 1 99

The traime t of perfated ulce by per et n l sympathect my 1 Takoverstree Ly n bir 9 3

Acut post tra matic ord m of the! dw thee mel te los. If notion sudden tra frm t fre year aft r humeral sympatict my Irrich Is n chir ore

Priart ril ympathectomy a the eff to got i cleatriz too flegul is Jean roy Mather Can r d Ifnorma r B B t mem box l el i P 1922 xbx 1204

SURGERY OF THE CHEST

Che t Wall ai d Breast

M mm l lucq lilp t fith bre t Kurreria firm Bil toem Sea t d l 9;

11 111

XCI 5 5
Recl 'scase C II RTT \ n ital | ch 19 3
[200] Resect frietlac litlcouseofe m

ftl beat with speciale 1 t of th d . [200]

Truchea Lung and Pleur

The a tratra he la sect

I MJ 923 1,354 Leutinth Ir pa "pasages S Star G 1 \ M 1 921 1 1 1600

The ask of the nell of the plant of the plant of the plant of the RT of the plant o

oe med 1101 d 1 921 35 1 038
The tre tment floc 1 it be ulos at ti per f

the l g by d tch t f the part l pl ra l tt

tmem see deb 11 9 t 1 10
Extray! Ith recopi t 1 th salte tm t f
t bercules R K cto t at l 1 h 19 3

Fredplm sthe large thught the like pethught the like play 1th play 1 AMPLETE 1C LADEN AGS BU et mil Societis higher 1933 rı 643

fit liza

u 643
The cut pp pn mth 6 thm it the british mit pp pr mth pr thing pp pr mth pr thing pp pr mth pr thing pr th Pulm y meeb [200] 19 3 599

RICHE Lynch 193x 805
Perfeat gilatr lettre ted by sympath t my
Caldien Bill a mem Soci chid Ponth (gr f the great toe f k wn rain m pathect my the I fra s mout two reo ry M S r and N S rw rz B ll et mem Soc l

Re ult ft r thee years f pen art ra I sympath t m

Imbe La

I r post t aumstic trophord ma [th]

ch I lar 193 l 1310

Mi cellaneous

s the gibo hood f mp t tel ry ! lu 1 ls 1 Mryrs \ h f Pych t to the

M coplam of thig with paral mid this phragm J H No 211 R N K M J & M d 618 Arc otc

The report If u cases Im Igna t due se l ge pese t g gatti mpt m t the set T i

Pulmo y ga are the ces colored from the fith pat the post in 1 g curs CFH \ Jam MA 160

Schmitt outlies for its recopm g I gs J (ff man I \ R at Prese med I

Descripting till the fth roctgra Cilrum V. Cin VII 93
hall ricid gos fb bidlit i achliby m flyct flyn li Vran Derma by m flight flips It Arma To-Dreite.
Dir : Dirent dM Ti Bill tmem Soc m d Ibbid P o 1 1

He t and P ricardi m

I jes fith leart fmill tifre J Lance Bt . htl Med to t I vmt h ! f the perdu sectory to the medit military at 1F I mon 1 1 cu Bil t mêm Soc mêd l hio d I

Tramtrupt fill fit pe Im JID tm

Es phagu nd Media tinum

Resit the ifth fpc to flith distributed for the associated for the first Bletmm for the first Bletmm for the first bletmm for the first fi C mpl t asoph g 1 listra t ra d spasm 1 1 Se taltos fthosophigu (meauta

111 h Rpct ff 3 t It tre fth cesoph gu. Ilr JMil Ceog 3 Ceat 11 fth assolngu fll g feat i WBW 112 NOrl 45

931

tedlpg ditt DMn

f co i hag ! trictur s H Kighteany Ze trall f Chr 1023 | 381 I tule bet ee the exophagu a 1 the respirators t ct I B Davidso and L S Mills Med Cl \

023 7 000

Alpama of the ex-ophage T Tobler /tschr f Laryngol Rh nol etc 1923 300 Primary sa c m 1 the re-oph gus C E Suith a 1 G 1 Rt K In S r 1913 1 577 577 danw metlod

Vi k K K in 5 m 1975; 377 w method T koxix Hosp T i 9,3 l v.
T Roxix Hosp T i 9,3 l v.
Medat I l pl ment is nif c on the tree tree f plm n y tube 1 by art f alpo moth ray I G H to 9 Med J k trail 103/11/5 4, 24, 15, 15 Neopl m fth med st num fan va leh lih id get f hty r W Rofs \ \mathbb{M} J Dis Ch!

Thym gl ie rg m ti fant l] Barnerr \ th est \id o 3 \ vi 387

The diagn s and tre tment of enlarg d thym is in child en with report of ca es II Spoury & thwest Med 1923 XXI 392 Artifet 1 1 re d thymu p el min ty report I II Swith Noth t Med to 3 X1 398

Miscellaneous

Nev sign fp I po to n t sul ac te lise ses of the chest and their practi 1 appl cat on D Det Rto I is R me 10 3 vx sez pr t 1553 F tors a the d games of f e ga bodies in the a pa

sages P I \1808 \m J Roentge 1 1023 Oloth rax I Tury I ese mid I r 1023 vu

956 Acae of hum thrac clin mycoss G Ver ove PACOAT Mante M I 1023 X 1 70

SURGERY OF THE ABDOMEN

Abdomin 1 Wall and Peritoneum

Report I th committ n t umati hern REPORT IN COMMUNITY IN UMBANIA PETR R J CRAYPS HC I F J COTY HC STEPSO d V I J IS B ton V & S J G 23 cl 848 H m u fen v eold fdra ag in fet n I abd m 1 sc and it m ut p ent n I cette t J V R Lyw J Lact 9 7 l 578 Stran W I ob b m H W V 1 SFRS J V n V 1 931

Opt truntflag ed cll h mar (
I TOTSC \ Z tall I Ch 93 l 58
A f d m tl f to n the ecure ce f in ou a
h M G \ \text{ketter} i k S Ct ot r \ ch \ \text{bug} finou al 93

f gu lh i ft ope at teatm t Refigulhing open.

Refigulhing open.

1 S Now with 5 g of lex 5 4 [202]

1 b mid petn fth petern A I are to the full timem Soc decks J P 931 3 4

(e lp t t c d) t th first me triat n m th ft h!lb th (II Sc \side R Z t lbl (Gn k Gnk gal Local dnht! p t t who t ppe ict

LIROL A h fa o-belg d ch 193

R fm fp t ts I Waser At h f Ch 93 ctx. 3 Thaft esit fibd milt be dos i hlin HT 1 : y B t M J o j u 863 [232] 11 th py 1 b culo perto ts G Miccini
Pll Rome 9 3 x sec ch 5 4
D the fill w g the rull t definee print
C Wester Zet lilf Ch 9 3 1 157 Post typhod be 1 a lapar t my sc Rimamd 93 xx 942

Gast o Intestinal Tract

It dy of ooo c ecut cas presenting g st te t al ympt m HS W LLSON J Lancet 9: 023 Cat ntet all not R BENSAUDE 1 CAN and 1 Oury Bull et mem Sc m d d hop de lar 193 5 0

A sur a i nter t ti of the pastic phen me a ASH A THEFT CHI OTHER PASH PIECE ME A of the fit entered to M (100B N No k M J & M I Re 9 3 N 6 3 Latt filuti in g the nalysi F D Green J Am M 1 9 3 1 1 1748 impred milodi); estgat; the eet is ctn fibe t malaid od um; the human

b) t R K S I m 1 R MATHESON d W SCHL PP b) I K N 1 233 to variation.

Out 1 J 1 per Pho 1 921 v 333

(tre ecret , reponse t duode al fedi g
 1 Cus v 1 h I V 1 d 92 x 77

Ouer at n the h m ng stood od n l seer is a

th pec I ref re cet the ct n fh tami e I K 5 1 13

hylgasx 36 Thefict fhtm The first first margating a lace et march tro-d d als et on a annul R K S II und Withtap Q rt J I pe Phy 1 19 3 x 303

Lutr lia 93 Lutr lia 03 544 Detc lum fm the nt urf c of th tomacl e th td crooph ge I junct e L J RAVE EL

im J Roentge 1 03 v 9 4
St o s nd hype tr ph) of th p) rus in nurst 65 Might A hole of crug y per lives in muss be with the first per lives yield to the first per lives yield y

C ge t l psl ne st o in a lults study of the r lat n hip betwee gat de sin adults rden ge tal a m l L H identity nd G B Greber riat n hip bets c go.
ge tala m l L H idenham nd G B Gruner
10 utch Zich f Ch 9 3 d v 33 [204]
R p dly de elp g mplet plires in s pout
f a ca H SWANDERC Am J Ro tg 1 1923 v

lict u gastris nd ts te tme t I Ctervisse Arci d med ciul ye pe al 1023 vi 45 G st ca dinte in 1 yphib report la ca e cl ical

LOLODY Am J Syp! 15 1923 1 648

The gent channel K II Brezz De t che med Which 193 lt 713 Ach f Ma Ch CXX 1 365 [204]

The pathology is general relationary of pept ulcer Prt II Pathological been too on gain and doden it. M. J. Stenart Bit M. J.

1923 1 055 02 Lanenm tl

etgin of the pathos, es g tricule THYA II Zischr i d ges e per Med for the and hi hydna JR Bill Ach

Int Md 1973 1663
Septi ty I th g tree will a d th perig tri I m
th testine ta ch i gated od aluleers P Desai.
I C Rock a d f M triff Bull t m fm Soc d ch le I r 1923 1 75f 12041

The relationsh pe betten gt cut e a dappend cit JI (rekon veh dld R Ch Kn I troge d 1205

I ribrype en with pert I ris a might blef mites of the c II by Vra s M LINHORN NORM I & Med Re to 3 c 6 s [205 d by [205] The relat n f gat ule to care ma J M 1.E Lanc t gas c [205]

Malgnant deg nerat n f ga tr lcers N I FL N skt ve ha dilt Ru Churk g P trograd 9 3 1205 Twe ses f pe f at g le f the t mach J MANCE I d mel de B rd u 1923 xc 82

Prirated ule fthe tm h ga tro-e t ost my ure beauty B ll t m/m soc d chi de Progatit The t tm t of gain ad duod al ! I cis Med kl a 3

I crs Med kl a 3 99

The suggest term at fight the 28 case
k W. Wortor V. hadd f Ru. Ch. k ng. Petr 25 CISC (276) rad , 3 Ulcers of the tmeh ald oil mend the pera

tie teat taccrd gt the rpst fth ugclf ufty l fthe Medical Intite f Ptorad W SCHAACK dI (KORNEW) tha dl I R g I tog d q 3 [206] 1 at n

The che forerati f itifet dituodilulr tpiplt JS Hoste d tuod thespe I fre The tro-e terest m J B D AVER S rg (ynce & [207]

Olat 93 txtu 141 deere BOPunk w Kin tea tro-e t rost my Wehnsch 9 5 11 542 Dee t ga tro-enterost my wth ny fint lon

I Atmor I Ire sembel I 93 x 00

Castromy t m noperat n f the eve f h
thereofth t m h T C CLART La cet 93

1208 fe lee l' Ilr C in resect fr let I flr \ hand f R Ch h g P trustal 913
Resect n fith tm h fr hro g tn and dolf all fer R Lewison hn 5 m 93 l x 1 52.

208 The deter fit tree time to finant to perated upon go tri ulce. La Licor Aschr f acrati Fortball 023 310 [23]
Res tr tion ite aga tro-g troot m f blocul
st ma h Govern p I on the p 3 (2)91

Some res it of g the d n ra tion A L rasjer d P WERTHEIMER Prese med Pa 9 5 Generalter a me of ture fthe t ma hands test (abst ct) M L Es avenuen I essemed Pr 93

3XX 845 The relationsh p between the t mach and the intestin with particula reference to intestinal di turbances comi gi o ft pe tions on th stom ch W Lenua w Ar h ro 3 cx 433 An males fitest I of the the mbryology if Brit | Surg 1923 x1

[210] An a at mucal cause fr nteroptos a 1 th 1-col L W W SHER Med I res 923 5 cs 4
The tree tment I cut test aloc 1 n B N

Citcae J feeth 021 xx 1 3 3 1 sen feates esembling paralyst 1 cm W W Strown r Brit M J 0 3 % 0 Primary sa com of the sm ll 1 feet e 1 T m LLI

n stal deh 931 to, To ses of duod n it ci n in child en f the m Iffe bod's C TLEF Bill t mêm boc

d ch d Ia ch d Is 1973 h 39 Th duode l vnl m M Drion Bu flesméd 921 1 1169 Dod nal dy pepsi I on Mt. 1ER Presse mé! Pa 0.5 vi 0.7
An q y t the selles fth d last be
M Fixetistet S g (yn & Obst 931 607
The ape t u fth d od altube H W C REE

JM son St teM Ass 923 xx 34 Durdo leg it to 1 lises JR d l 1923

Dienlu with effect t peirat HSBLCk JSoth Call MAss 923 ix 646 The relative al for Icala lung lite ton tiduod lindget l \ F Bage 7 Sith

Carl M 1 0 r 1 64

Lost perat 1 to 1 ft 1 tre ted by ph

no e 4 fauls as In Fr 1 med 1 The tement of 1 to the system of the system 1 L Came Srg (v ec & O) 1 923 x 599

Observi s ndodnal srg) I B vis 111 Observed is near consisting of the construction of the constructio nt lum A D I gott So th M & 5 tg 1

If not phe leocarcal the limit nuht himicle lele e dW mer Bull tmem tmyre } lr

F brom f th | m with fat I harmo hage fr m the test e L Lowe d'L De (NE B Il t mem Test e bonne de Programme Marie Bill tomém. Theograph to et man Marie Marie Bill tomém. Soc nat 1 I

crastil 93 587 Traum t tilrupt i Massie Laci 03 cc 64 Cotpati fm the ge alpracet spit of ew HD Vox Wharp 7D M Backet stitol

d OTHERS LA 1 930 60 gi al treatm t 1 ch test nai t T

(211) port J (Sherrill K nt cky M J 10 1 x 64 Typhlocolt d 1 pathogenesis G Caros ivi report

perion it 1 9 3 ks 1 50

Three case f testinal perfort 1 th co ree f typhod f e n ree ry tw death As pix and A. Dr t B ll t mem Soc d h d P 9 3 kh

Chro e kerat crit i h.dhood H F Heim BOLZ Am 1 D Chill o 1 1415

Herme of the 1 test | 1 vall | A Kosyarw Verhandl d Russ Chir k g P t og ad 1923 R W. BOLLING Partial c lect my fo megacolo

Ann Surg 923 L The centgen | g cal d gnosis of d of the R D CARMAN and S FINEMAN Rad 1 g) 1023 1 1 9 The most of the mining the co dition of the appe d in case figul herma the right fe L MAYER Bruxelle med 1933; 76

Thread ms in the ppe div L Rock s N k

M J & Med Rec 1923 ex 1 62 Et ology ft um ti app d citis S PÉREZ \ 12Q1 z

Ltongy 10 mm ti app utils 3 12822 1400 2 Ar h demed ung yespecial 1923 410 Appe detti in fm ral he a 4 Lawis 4n I c de med Un d M te id 9 3 vin 94 P mary st a gulat of a h nu t d appe dix the

ight gui Icni (Czzotti Pol li R me 9 3 x e chi s

Acute ppend t in tr g lated h mia V 1 La PENT J am M As 1923 lex 784 A a cofg geno ppend its ugg stng it it al clu in a f t month ld J B RANGER a d cclu in a A B RA GER B li et mem So at de La

C 1 556 The Gison rubl dam t mp 1 cute app d ts R C WERR d I E MACFARLANE MINE ota M d бз $^{9}_{P}$ $^{53}_{blem}$ f the h n ppend ELA g B to

M&SJ 93cl Roentg dag 673 f so c lled chr c app d ts S WEINSTEIN De t he med Wehn h 93 1 าร์วาก

ent smpt m i ppe d to LT Snan los Re to M & S J 923 clx 676

The cuse fr __c f ympt m ft the m al of the append CHL VRENCE Btn M&S J

o school 67 Hoose I compt a h cl n b f 000 e vith som did ct on thef m W JONES Am J W S 1923 t 70 V l lu fth æ mad cedn ol d GAD J d med d B d x 1923 x BARDOS

9.38 Miniett n f flammat n ith t re o) C FAROY nd J B UMAN I méd Par 03 12121 ítht ⊶e l le t my de 11

TIL VI di hi 923 75 Cn fth lft 1 V lauchet Rfrma med 9 3 XX 8

(S FOULDS S g Cyne & Obt 93 v iden my m t Ing the gm d ES Jumpa d 648 1212 P ct I g c pecul nt f the n g C Rosser 400

JS g 9 5 TT 65 [213]
Operat et tm tofet fitul L KRCHMASR 12131 Zetalbii Chu 931 993

Ze talou i Chi 93 1933

Ca bo the mpli 1 th ret m Cuneo Bull
t mem bo d chi de Pa 933 1 333
P c d gm f rs m of th t m I C
1 owns N k St te J M 93 1 443
Artificial au (thi asced g t cod g t Bu
cht techniq e II rr and Roux Breger Bill t
cht deching e II rr and Roux Breger Bill t mem Soc de ch d P em Soc dech dP g3 l 7 The tetm ntof hæm rhold by t sttal njet

J DCN AR Brit M J 923 H 808
Prunt s n ome t log cal f ct s B H BEFLER

Am J Surg 93 xt 74

The relaten of pruntis of the anus to chree di ease of abd mi I and pel c iscera J F MONTAGLE J Am M Ass 1923 IXXXI 1661

d peri anal region N I nereal ul ers of the anus BAGNOLI Ra eg a interna di chin t ap 1923 i

Descript n of a new peration i ano rectal fistula O R 10 BONEWITZ Habnem n Month 1923 lv

Liver Gall Bladder Pancreas and Spleen

Su gery f being affect us of the bil ary tract D GIORGACOPLIO Arch ital d chi 1923 i 179

The em iol gic I val e of dis ociat d icte us CHABROL dH BENARD Bull et mem Soc med d hop [213] d Par 9 3 35 xux 60 Hamolyt c yphilitic ct ru G Coglia Rifo ma med

93 x 937
Sme u p ct of infectiou (c tar h l) 1 und ce
C M Joses Med Clin N Am 1023 v 8 9
Fu ct l tests of the live M Elvhorn J Am M

1923 137 1 1404 Th le 1 set tior1 ereffciency and ni est g tin fth hep toconditio pr g an y K H TALLERMANN

Ouart J M d 923 x 3 37 Further vest gatio s on the eff ct of ar us drug on eti n of bile in d gs with fi tula O Specht B itr klin Chir 1923 CXXI. 483 On h nd da dsi w

s s fop ation f trop cal dadsı w s s fop attonf trop ca th Bk D st i t 19 o- 918 A Okry h ab ce CHEWITSON Verh dl d Russ Chir Lo g Petr g ad Amorbi b ss f the left lobe of the l er BONNET

Lynchir 93 x 786

Mult pl hydat i yst 1th live op ated upon by the

th acophr lapa of my 1th ut p eumoth ra H
Cost viivi d J L Roux Berger Bull et mem Soc
de hi de P 9 3 hx 175

Cost vivil a g L tolk Derock Bulli et mem Soc de hi de P 93 hr viz 5 1 h Rose 1 h 15 y age C Berros I th R me 93 vx z h 549 Lagen pa itce 1s (th 1 S G Girror A n tal de hr 1931 35 Pigment y cirlos F Gellart Movés Presented

I 03 txt 334 [215]
O the t dy i cute yell w tr phv i th l er N
H MASII nd N TAREUCHI Alchi J Eype Med 193

The dgo sofglibladd d se BI SCAIFFE An Surg 923 lex 11 6 4
The d n mad 1 th centg ay tudy f gall hi dder di se D Palmer Am J Roentge 1 923

g c lly t eated ca f hæmor hage of

A ep rt of ge lly t eated ca t næmor mage of th g ll bladde which d ge ed i fe L Losstein 222 285 [216] Chiles titis F C osti Rif ma med 10 3 text

The time elim inting list neil mat in A. L. Cam Roy J. Am. VI. As. 923 l.x. 67 The firmation of blary callul C. Aless Andri Ri

f mamed 19 3 xxix 1069 Observations n th d g os s of gall st n s C W

Mod mdi gnos of de ses of the gall bladd Witter Med Clin N Am 19 3 1 900 Clea cous ch nges of the gall bl dde all Fowrer An S g

C ica cous chinges of the gail of dec. all w. r. Fowners A n S g o g laxwii 623.

Ch l cy tits indigall stones in the light of re nt reserch A F Hurst P citto er 023 cx 21

Chievatti and I with I fire jee and purper m H J I A H M J to j zi Childh I the tall to 1 5 laws we

Bittlight for the first for th tion lates it a bannel t tables and CF 2 22 1214 feelts owners has be žni t Kirkin is beint that for hit i Sem ted re fr ell tre O O IN Z TABLE I 11. 12 1 1

Aak It tag ~ Alfgiyi 0.1 . . brief at a solul might Stin at with the wealth to be seed to the D (the ryst) -- t M & 3: lift to a montal lat 11 t itto ledat (| Tax li bis About 1 to the state of the sta Se Moll I 2 1 1 V t x 8

It the gett that sheen

I t W J M I by Stitel

Wilmi : 1 2 4 R of hel 1.1 10110 T ft t del 1 thittitate perpu m IR Tt Mai I 1 i

la immilia i i i i i

itii illi aller . . 1 1 11 11 11 47

Theiris w we don't punk it f I we get a see seed a punctiff the leader medium 1931 at 0 flay the few discharged on C. K.T. 1 and flay the few for the leader of the leader 10 t les 14/ if helt ... I bolk y t 199 k to like the little that the refer to the little the l / 11 Murat me litre 1 11 ° 21⁻

Misc II no s Wine all par \$ 1 f I la t i 1 1 5 1 time 1 or 21 1 1 25 the lare of the group

with the fitting property

method by the fitting

two step to the fitting

for the step to t er of the Dr wind Thereta 4 1115 11111 Thereto a little part to it as a series to the transfer of the C is ign may team 1 To 11 51 5 1 11 (1 6 10 10 1 · 1 1 ~ (1 1 1 1411 1 1 his track of the state of the s (7 \ 1m o 1 m T to 11 telpst all an

GINICOLOUI

11 5 6

11 .

Ant if it met forten it wil And If It metige in the sit it will the dibet will cert if pliffing attemptivelized dibe Altahim potential is specially a Constitution of the State Onto confirm of the AMI Mod James 2321 | 1 1 If hould net est tall I poet it I me it ted by all rath the rol toen it

uft :) I I Krit D T ikkis (ynd bec a k) Ith pieru R W Farac J Im 31 1 2504

The fact to join me : 11 1 li brimer + 1 tt 10 VI W (ela M) I Refat in them; I m ha iti menya e self time! I Ji h 1 400 011

It nor tired a net here other strine treed g ad we f t here rehare F W M (a M M) ;
He has f t ad trie h n 2 1 f i t c h d 1 1 tilb beim selt denerton fibe Lithbert tilber i Bills idt Ligenderla i 4 Rhores felt i u His junit

11 11 firementh letten fit ten lette f Hill Societ to to go e it out t A teps t ponsione was fff intal mitherport of in f per all the app t Birk r Bill will the tite of it

tg treatme t of myomata and Inir from hem rhagt met p thies E Schwarz St ablenthe A clamp for p fre trill g hæm rh ge whe pe frong my meet my \ B NEY J Ob t & Gynæc

But I mp 923 nt Imp 923 447 Cæsarean sect foll elby hy t re tomy f r t INDÉR DIAS d'LOUBAT

fb m be ming gak nu Norfe pris d Louent
Bill Socilit id gyne l 1 9354
Ut n cuett g it multipl tr dct s
Imted dcat n F Sr Jacque Ca l M & J

Tran ilng in tital hyt et my

Tran i ng in (tai in e e in)

C D Nith (5) c b t 193 5

V I min ect pps k il ly af l fit
by t ct my fr thb m (1) R (itti anl Cons

D Carret Bull e il t t d gy c le Pr / 3

Ulie y 1 1 STEER R fet lit f (snak [220] 1923 1 1069 t HADEN NA Cumm f the t II \ Dt ix \ Y | M | K M | R | 9.3 | 55 | I p | I ma f th po to W M EBN | V | f (x | k

Htllbutrtnftheut

Cans and Sug of State er Sant Research to the Sant Research to the sant Sant Research to the sant Sugar Suga 566

V tudy fth t fm 1 d t nd ses nmtafthut e i II SCIMIT ۱m I the lys & (221) c u £ 11 y f A Lisco

f the body f the teru O 1 T Cyne I gr 1 llwpltfo8 seitrattel tydm H BauriW I Her Am J Olt& t tel (չո ցյ դ Ա [222] l els tìm t t t th 21

g th th t the mplt lit is fithe gith polit finish y b bef e REFB ndB | Bll Socilities & dP

Vi 174 Wilmal silp tof ler JH to 1 th bf Con k 9 3 1 4% o The tom tom long to the toth whigh tright to 1 geth roe i th I gth roe to n) Im fict the gulti JT > SE Red lgs 03 48 Hot tm [mill Dezz Bli Soc d b t

Use the second of the second o t R K LLER

Îk îl et m/m socatd I 93 604

Adnex I and Pe i Uterine Conditi na

iseulipem ta fith bridlem i Scitck 16 Bll tmém socat d I 93 603 1 h d l ll 1 mti fflip t bes 15 ih dt ll RID at so \m JOb t & (yn 93 607 \tage [peri mb] lecch mos associated th cut ip gt I t Schin t Im J Obi & Gin e belom I out I th t bes in salp g tis I FORGLE IL Carry ur H II et mem Soc a t d I 923 1 532

The treatment fad c tis with turpentine C STANCA Gynec subst 923 11 20 In w method of perf rmu g s lp gost my I CRAY

J Ob t & Cynarc Brit Emp 19 3 XXX 430 The el tion of the endometrium to ovar fu ction C C Norris and M Nogr Am J Obst & G c

923 11 6 8 Bony hyperplasia at the edg fintratesticul ro aria graft in the g pg R Coun ien B ll et mem Soc

nat de Par 923 C 527
T td n pe h l au 1 g g e of a rmal
ry m l ting a ute app d t W I Rosr Arch

Pit 1923 vi 787 Pit 1923 vi 787 I metri mat f th pelic perit n m the o y

ith paialt Sickelf Bull tmm Scaatlla 93 c160 Limidim to fth ary wth borma!

I pm t fth e toderm I SCHOE HOLZ Ze t lbl fCyck 93 t 3/3 Rdat it mplt patnf an car

m I ZWHIEL Strahl the ape 93 x 64
The eff t f hum ys pon th ary p 1
m tlp th l l and l l tudy II B MATTHEWS Am JOI ta Cyne og t (4

The path! cl nat my of th rpu lut um (abat hem t ma d ne pl mi I You sk and es it hem t mad ne pt mt r volsk aug R W Trlite Bull Jhs H pk H i Balt 023 v va 80

External Genitalia

Complet been f the int J Decreement Complet been f the unit J Detrictions.

N kM J &M d Re o 3 c 5
C g ut len f the non use fully trait ly 1 trait len f the non use fully trait ly 1 trait len full len

C g t l ben f th ag B ld M h 50

In milt thral h tule mer Pl) Im 93 x se chir 40 men (CRESCENZI U thr ih cter pl ti fr ttl hypo pad s V latinet Burla Conc bt 931 12

La t (the pel 1 flat 1 pers um 1 WELD J La t 0 3 1 35 Multipl vt of the n I Dietraff Bull Soc d ! t td gynéc ! Iar 19 3 xi 34

Miscellaneous

Cyn logo ndgn 1m lone the lin bicen i doode fithef mal pli g s d ympt m ly co d ed th pro c of the phys cia II M ď d tyco u equit pro c orthephysica it is M CRE a IV Boyer Lan t 932 cc 935 [223] The teatment fg talp five nagd wime J DE FOURMESTRUCK Bru II med 103 40 Thed gnos a dt atmet ft nlty C II Dwis
West si M J 193 x 256
Sterlty n mn dite tmnt R Zimmermen

Sterity n mn d t te im nt K LIMMERMANN
D utsch md W hoschr 9 3 1 206
The n d ce f ald sease in p t ts ff f
th 1 nlty \ B Spelding C I f ma State J M 923 1 457 The en fica

Tum rs a dd pl m t i el tinto te ilty F W Lycer C lf rn a State J M o23 xx 463 What r latin eu t bet en the e doch e gla ds a d stenlity F M POTTENGER C liforn a St t J M Q 1

The dagnos s nd tr tm t fst lty F M Loo is Cli mia St te J M 19 3 xt1 466 O d m li co ti nce furinei J Obst & Gyn.zc B at Emp 023 xxx 358

Sasal dy menor hora A L LFVY Yo k M I &

Med R c 10 3 c 568
Primary affect o s i the 1 ternal i m le ge it ha K HEROLD Ze t lbl f Gyn k 93 1 S e abd m o-gen tal hem rehag D PRAT In de med Un de Mnt id o 19 3 vi 958 Ch onic I uco thre A H CURTIS Am J Ol t &

Cvn 03 1654
Th p th I gy and t eatme t f h n le cor hoea futh r ch c l tudy of the by t A H CURT

Sug Gyn c & Ob t 10 3 txv1 657 [224]
The different l c u t f ppend t tubo-o u a disease and if e t on of the uten ec v ty A J HINKEL

M bd sympt ms associated with the lift lumboa and ld S Sourer Arch stal di hi q 3 1 20 a sail itt Soulest and man g g i z g
The tr i m t facute go ortheas n n n M t
Browny Ther peut Gaz g 3 3 8 x 1, 28
Anbulat yt atme t f go r hear i the female with
the nt septic dyes W R Joves Urol & Cut Re
923 xx 69

The dath rmy teatment fgn hoea A E MILNER a dA L MACLACHEA Lancet oza cev

Can er of the pel cran H Schmitz Am J Ch Md 93 xxx 791 Life p ocesse in ca er f the fem l ge itali afte rad ton E Opriz Med Min 1923 n 1215 T ratog n ch no-ep th homa 1 Ferrero A

I face it to the state of the s

BUNDY Am J Roentge of Q23 872 Yay tr im t gyn cl gy Heira in Lepig Kl kh dt 93

OBSTETRICS

Pregnancy and Its Compli ations

St des of the corp 1 t m of p gna cy n th co kaltner Ze t bbl f C ck 033 1 449 P mancy f llo ing d uble lig t n f both fail p t be nd ce r a ct n H 1 D vinsov t

M J 93 188

The se fphloridzin in the a lyd gn 1 of pr gna y
A M H LEMA, N Y rk M J & Med Rec 93 1

I gest glc n dt the chi dagnos f p gna + Pelm ry port CF Lov and J C Hig T Js N 1 rk M J & M d Re c 9 3 x N 545 Th ale d limitat f eet l minat n p go cy Von Mai icz Ran cki Zent albl f G

k 1923 xl 1 1 39 The use of maropho cat those ped martato fall hart FH FALLS ad L. C. ROCKWOOD I Am M Ass ore large 683 Lulargment ith belom tething ithe fasci and true ith kinning new) H Sellmers Minatisch i Gebithu Gyn k 923 km 8

The hest remet bol med ring pego ved perper m LF Pring way to hi Gyn ken garas Studes norted Ipm t MFL Keenea dE E HEVER J Obst & Cynec But Emp 9 3 xxx 345

Negat e adiog aph f the pr gna t ut ru t th th m th Sejoung Bull box d b t t d g né de Par o 3 til 3 o

Twn pegnancy B Zo n & Ztsch I Geburt h Gynaek 9 3 lxx 7 43 Stereoscop c adı graph 1 th tudy ftw pl A BRENDEAU a d J REGLADE Bull Soc d bt td

t BERNUEAU A J FREITAIL Bull

gynée de P 0 3 408

Acut hydramaios bd mi ipu t e c tin t
of th preg an y Botraster d G Utierr Bull Soc
dob tetd gynée de P 0 3 xii 380

Tecres (225) V ws nd beer t ns abort o

Nok M J & Med R c o 3 cx m 546

Ocular d seases d art ficial bort F L DROSEN F ESERBAR Zentralbl f Cvn k 9 3 xl 11 409

Criminal bots strti hoptl P Balled Rev fr ng de gynéc td bt 193 m 603 A a b n aff ct n i ll g n ab rt Zentralbi f Gyn k 93 lvu 536

V or lhysterect my in the 1 arm at fperit at sdu to bot JP Tovaxsve B B word but et d synde d Pa 1923 334 Peg n y and del ry a woma w th p rapl g f m ham fomyel Lar vr B B word but et d g néc d P 9 3 10 490

gived d P 9 3 31 490

The unse they gin y 1 bo a dith p experim m the use they gin y 1 bo a dith p experim y 1 bo a dith p experim y 1 bo a dith p experim y 1 bo a dith the pregnative of Sciences B 1 bo dish tid gyne de Par 9 3 m 38 Recurn gi n f pregnat y 1 bi 1 Sciences B 1 n tid 1 Geboth a Gyn & 93 1 as y 1 m tid 1 Geboth a Gyn & 93 1 as y 1 m tid 1 Geboth a Gyn & 93 1 as B 1 1 bo dish 1 bo Soc dob t tde gyne de Pa g 3 vu 483 Ob tetrical and ti t be cul sp gn t pat nt

1 FARAYI Arb b ild m d 9 3 xm 43 T case I ul g l suppurton mpli t g T case I ul gi i suppur tou moni i a prem n' j 4 n reb us a d P B Lard B B! Soc d bat et d gynec de P 9 3 1 406 V stru t n a d p g c n Hodgki s d sease (lymphad n ma) A 4 t us EL J Obst & Gynec

But Emp 9 3 xx 373
Bacten 1 f tin f th n ary tract compleat g

p gn cy a d th p rpen m J Henter J Ob t &
Gyna Brit Emp 073 xxx 390

It rrupt of pregn y be of bil teral py i
ephnt L Vallots B il 50c d b t et d gyne d

Pa 03 x 11 5 7
The d ton f th treatm t f se r pyl
ph s complat g p gna v J Mart. J du of med thi 93 XV 445 1225

Pyel ephritis implicating pregns cy t tm nt mb ning nt n n) t n of urotropin nd irriga t n fth re lpl s D vercey nd Dax I de med d Bode x 93x 44 A case of all minum of pegn n v F Cook di I LIOD Lact 93 cv 33

Chemical change in the toxemia of pegn cy M Chemical change in the toxemia of pegin cy M KAHN N York M J & Med Rec 10 3 ex 1 54 The treatment of ere hyperemesis gravidarum with chloral NAYSSERE B II oc dobst et de gynéc de

19 3 XII 25 c ses of eclamp a Favreau and Forget Uriov Bull Soc d'obst et de gynéc de Par 923 xii 500

Pict paya in a twin p egnancy W G Rible South W J 193 v 1883

Abrupt plcntm II I Bernadas N Orlans

M & S J 93 lex 233 Pematue p t n ith m lly 1 se ted pl c t F I EY and A ARMBRUSTER Sch iz med Wchnsch

923 1 593 VI mat i the uteru and pregnan ; J C LITZEN BERG S g Cl N Am 923 III 1285 [226]
Th dag of it uterine pregnan y c mpl cat d
by fb 1 Rees B l! Soc d obst et de gyné de Pa 1023 XI 437

ndficedmt myoma of th D cidu 1 cts tute CD LACHRANE J Obst & Gynze Bit Lmp 93 443

tycrnu G Conrad Zen Peg cyin a rud m t y c rnu G Co\RAD
tralbl f Gyn k o 3 l 4
Th dign f vt a and it ute ine pr g

Sei exere Bull a dob t et de go ec de Pa [226] TU 415

10435 Corn g t t e a d t uterne gstati n
J Vi keves N k k Vi J & Med R e 1923 6
In b i tent trautene preg cie
C M zeg N k k Vi J & Vi d Rec 9 3 cx 555
T t p g y d t a long t d g d mpl te
101 rpp n 1 1 usy 1th tubal thmu W Reles

nor rupt n 1 to 13 the tubal throw M RELB Ref fined gynd etdolt 93 57
A case of r pt ed t b l p eg cy with oe 1 t
1 te p g cy MUNRAY ad DELATINE B II
et mem Soc a t d P 93 482 [226] etmém Socat d P 93 482 [226] Ar efrm frupt e ft b lp g c3 A. DFRODIAS nd ROCHU B ll d b t t de gv éc de Pa 93 5 3

l abor and Its Complications t m l dtin fthe wll fthe teru fth

m mm l tt m H Keifffr J Ob t & Gynze But Emp 19 3 x 33
M tern to a d l bo P C RLIVE Re f ne degynée tdobt 93 553 Diffcult md ferv ng rlpratice S G ILKER Bnt \ I J 93 93 Birt V J 93 93
C ue i bo p s t the nd of pegn n y H
S RIBE A h d med ciriug y pe i 93 m 5
The it de thee d tofl b m esc nt fic
J B Da LL 5 g Gym & Obt 923 m n 1693 B De Le 5 g Gyn & Obt 9 Obst tn 1 nalg and anæsthes a d at f t s ul-oxygn d r s c mb ed methods W C D vr rha d C H Davis J Am M A 9 3

9 3 000 7 / P nless blibirth by syn mate m thods CW TIMES E P DONO AN J O RESCAN L R COMAN IM J Obt & G, ec 93 1456 [227]
The ciret of ptutary at ct betteres [227] bstetnes F CIATILLON R fra c de gynéc et d bst

Th use d b se of obstetne f cep C BERKELLY JObt & Gynasc Brit Emp 93 Partu serot s W 1 Dorland V 1 k M I A

Med Rec 923 1 55 Dystocia ii talong n t pregn cy U MESTROV e it i d g n 923 i 59 Re it I d gn

A case of fetus papyraceus firmly held n the uterus I PETZOLD Wien klin Wchnschr 1923 TXXVI 530 A rational meth d of dec pitation P DELMAS Gynce sight 1923 1 3

B eech p entatio s treated by p ophylactic external es repo tof fifty nine breech p es nt tions so treated G H Ryner Surg Gynec & Obst 1923 vx 1 660 12281

Childby the in the prence f chrome eleph name ulce f the ulva M BECKMANN M atssch f Geburt h u Gyn ek 9 3 1 11 321

Multiple hydat d cysts one of wh ch p evented deli erv Dicaros B ll Soc d'obst et d gynéc de Par 1923 vi

An unu ual ceident d ri g delivery at te m B H Martin and A S Brinkley Virgin a M Month 1923 [228]

Complete 1 version of the uterus at full term I. Woodson I ternt] M d & S tg 1923 xxx1 476 The mecha m of th separat n f the plac nta m mb ane n the cour e of delt ery F COMMANDEUR L CHAPETS Gynéc et bet 9 3 n 449 [228 Secu ing f a epsis n manual moval f the placent B RAGUSA Z talbl f Gynaek 1923 and er i

lv 1407 Tre tment is tenti n fthe pl cent by miect ons to the umb heal e F CHATILLON Rev franc de gynéc [229] td ob t 1023 711 52 Di inf ction of the ag a H Kionka Med Klin

0 1 30 1 18 V gin I d sinf ct on H Kionka Med Klin 1923 XIX 1118

A new typ of cæsare te hniqu A M Judd \ k M J & Med Rec 923 cx 1 572

R port of a as of postmo tem car ea sect n M J
STOVE N Nork M J & M d Rec 1923 cxv 571
A histol g c study ft o uter e due t casa ear due t cæsa ean se tion AUDEBERT and RASCOL Bull Soc dob t t de gyn c de Par 1923 11 4 5 12291

Puerperium and Its Complications

An o three of po tpart m car H Thoms Am Ob t & Gynec 9 3 v 444 Po tpart m eclampt c zu 12291 ith ut alb m nur a m rphi t tm nt polyun cu e FERRERE B !! Soc dobt etdegynét de Pa 93 1 96 The path g es s and th apeut cs f pu meral ecl mp a Levy Solal a d Tranck Pe med Pa TX1 660 [230] A case of s pp e on of ri with ymm tricl cos

I the ren le t 1 ap rt ne t woman J \ CRUICK d V tev deo 93 1 84 The d ti s for 1 cc e th app n pu rperal 1

fe tons A DANTIN Re fa c de gynéc t dobst 4 6 St eptococ e pu rperal sept cæmia cur Pouv : Rascol. B ll Soc d'obst et de gynée de Par 1923 Poux a d 1

The tre tment fp erpe al infection with a polyvale t serum J Langious Pr s med Pa 1923 xxx 948 The surgical tr atme t of p erperal 1 fect on H B Sarrond \ 1 L V J & Ved Rec 1923 CX11 536

The report I a case a which pern anzinia com rheate I the pu men to L. Valto and C to be (.. eres Bill Soc d but et l genée i l'a tott

Newborn

The nature of the bettern in first the first Killen wouth M. J. 923 84.

The tree treent support the first in book to the first treent support the first in book to the first trees. stracania pecto i iren i ABIPAL Bill Ne dit et digine de li gigas se Thi i ith diping i men wil pulminary tuter Int | Countain Bill Sec tolat t f gr f 1 l r 10 t 4/3 Immed t ect n feran l fepres n i tl n w t en lot era ill ter Bull Sa d bet et ! gypec ìΪ 1 0 3 x 03 [230]
A se I mellena in p 1 111 J MEGEVENT
L méd I I S se R 0 3 x 1 7 64 12301 The occurrence of a trapent I have rely en n whom I II wing The m the left es set to a M I RIVALE and S.W. Bint See Conc & Olst o a

Miscellaneou

Without a little f listers. J M Hickitt. J Med Soc N J res 10 3 xx 3 7 Called up the fit a fpo hate al a tin's Smicker's Hull Soc d but et d gond de Iring 385
There I put the fully differed find III ritted III to Nove 125 If natale reading on the talls AIR a Th p () 642 Cor 1 C F H 17 RD J OL LA The direction of the terms of t 1 1 to AM CIMPRILLA II W WILLIES J M FR. LAT M S. 10 1 1 164 m ad (bl Roentgat hi to ja au t Ret kraph pelimits WR W kisir lint MJ 038076 mic u j o 3 flore The relat full tobett CSIR ster But M j 223 to 0 Chin ag

CINIIO URINARY SURGERY

mobal I Buar La t ou

695 1041

Ad enal kidney and lirete Dift n f t al n th lee l free n t n mal M TRITENR R t ligec 931 (The f f th fren | g | i re t I scept lit f frenalect m rol rate t m roh r W J W Scott J F pr. Med o 1 x 543 View learneth x 1 1 7 W 1 R hi over 1 J M > 0 1 1 5 1 antre lett kl (Ci A fee all

Jind med the outs 5 Hypern phr.ma M H Wise J > th Crl M 1 10 5 X X 030 Tr liru ll m 1 931

I mare It mo I Ji III R He u i er b ste m woll ; rel « a zat R strutt Med the o 3 4 (2) the h maters and k! f too test 1 th 1 to h p t k! y dll l i steer M Ma rz k t (231) Let & Cten Re 03 1 C55

Does the 0 t t 1 Amhaed confirm the 1 r t
k II kenner 1 t rot med t h 0 t

The tech 1 fit pend hingithal test 023 2 3 379 th in of libonephthale test Some reflects.

Bass I turn med the compensation of the I the I to the I on peems spomeonithal than K. H. M. K. I. M. M. L. 931 1231

A test from I funct on t comt t f A l irra I mand the phenol his nept thaten test (In sec.) one to Lentra life in a Med of 1 44 (23) on the relation of all con that permitted 123t III I i Endoctrodien al 620 Hims at an I rotropen by the ri Ri it I d grace 2 1

Jdrimetth 93 ts kgt fthkd y Tkw 111 Rm of se prat 551 It mit nith i epins W V III i tut is of 158 MA I fmirpi itd ite JB Man

JOI t& Chre Bot Img gag x 448

r r Lact 93 843
The 1 fall teg m to the little Will Rish nit Fare J Med t George of 40 I polycet 1 Com 111 k m m 03 we grat 345 Th 1 gray not to t it It I D H n im 8 th M A S 9 4 1 3

Is It occurring í will be life ence t th 1 2 1 C Min ii It h led t a tal Litifig HILL WIRLL M

fper 5% 0 1 1 I elt 1111 11 1 91 5 20 we I best g galt F Man ld I med th

d I med thou sale to the court to take the med little t pt light A t T 14

! Ray of semel 4 ([231]
The treatment for it it is the unit of a little 1 k M f & M f &c o 3 (1) 11 me ma -a., ment | ti det no per h 1

οir INCLE JIM III Cof

The fittest t fampher 1 Wris 2 Zinch f ACF 0.3 4.7 [2011] Th treatment face pp benchmish i ris cross pet n firsten combined with repeated pel K i ze f D is fiture made et 1 [22]

I nal tule culos with smpt m fc lculus Citar 46 LET J durol méd et hr 023 4 6 Su greal renal tube ulos W D HAGGARD a d H I Dolcas South VI J 023 80 Ham toge ous ab ce se f th k l ey L Sticker

Wist kChi ipigan bl te 1923 1 8 med tch 1923 1 1 422 D bl cyt f the left kd v tran pc t la phr t mv c ev f Hertz d P Lecene B ll tmém Soc d ch d Par 1923 l 134

n phr t ms tmem Soc d en d Par 1973 1 134

Hamat ysts (the lie) Laxerti and Jeav

B il et m/m Soc t le Par 9 3 0 537

Op tive tratm t—ign p h tu e—i cae f poly

cy ted generat f the hidn y I Payr /t ch f

lCh 1923 4 [252] Renal I ae pt JC Sherriit Let Li [232] M J g 3 Th d ag (64

The dag deatment fixing to election of the transfer of the tra of the street of 19 3 1

The tech i fr l lut i g s J H Conting 923 1 64

Digit digit I fith us crety
time lu CINBNER John Indetch 92 10 et ch 93 49 lugi J Dite 1

Regal th 1 de h P 93 lis3

Thind fints not think of the state of the st une i fil s ph lth t mv \ B i 11 Bruell mél)3

ં પા Th mpotn f m t e i ut (tr x 11 \ h tld hir 44 [234] Splnhj math. pl t my H Brill T t] Mai er Bil tmem c de h d I

913 1 55 [234]

013 i 55 thr hg l Jish; (223)
(In Kolet v) 0
(In Michael v) 1
(In Michael v) 1
(In Michael v) 1
(In Michael v) 23 x 56
(In Michael v) 1
(In Mi 0 3 1 Th mp t pet filpt fplcet filmuli se DW Town

MJ&MdI osc 563 gm, t g t th H dd \ wat West ik Ch pog

lit 93 Dg ı f tì t R C B v South บัักง เ่ลเ Ti aman in f flmm try urt lt tu

th femal TH (R) \) kW J & Med R

Bladde Ur tl a and Pen

V f t ph f th bld i m m J Baxt J du l med t h 93 x 3% 1 T to ex l mp l m nt w th rupt f tl bl !! b th l by t Bit 7 a d Min B ll tmém soc d h d l 93 l x % f th

Intent cal | fthe bl dder IASTFAL I durol m 1 etche oz v 43

Chemical sol ents u ed in d sol i g foreign sub t ces in un > bladder H L Morr and C I Owen J lm M 1 1923! t 1667

Clon facill cotts ith ulcerat s f the m c us m mtrane f th bl dder thre c es imulat the 1 437 | Isyph! Pastrut Jiuri méietche 1923 T 1 437 Vac et imet ferstir A Bark Ze tralbl f Chir 1923 1 097

\ I hæmaturia c mnl c t n of utenne fb m LOLBET d'MA GE Bull Soc d I t t de gy éc de 1 1 10 3 71 408

It nal yd me and le : n I the p ten ur th a d the ck of the bl d le HEITZ BOYFR th a d the ck of the bl dle HEITZ BOYFR J ed et h 1923 1 417 tingpap ll ma fth blald treat dlyr i m I) g ther py MANARTIN a d CARLELY J lur 1 mil

t ch 1923 o t The tion geally ensited 1 M War ov J 1m 11 1 0 3 1 1758 that i der s fat in the nit I V I in it

Am J S g 93 vv 71

My plic pe tin n the taum nt f a 3

tie n th fem! G Les va Arch ital le 1923 (235) 288 tiul and asts of the u thra P Jones a

JU 1 923 9 [236] tin k ledg t g lly appled the tree t f cut eth t AD MUNER b ka Stat M. J. 73\ 38 Ilypfthpt utha \mirms Jdurl

Gen tal O gans

méleth gav 417

The aute in the flet of autge use in the potant I I Player R K I Fe Brown i C I Marif J Ur 1 923 v

Ral m a mpl hypert phy f the pr tat with a in m thod is a the table urth in memby crailled Blan Sherieva d F C 192 v It nt J M 1 & S k 9 3 v 1 46 I puall p t to be mata 1 Bricerre Bru

11 lmd 93 The lefmigati pp e th ben enligmet fth pitte R II Sinn JR

La trops 97 I tal im h puo ugeirk R J I O IN I Ste V Soc 93 4f pr : bc Ittmy Dat Jaulmdetch 021 1

e fiel c li ht fllowng potict v Name of the state of the state

NARRO N Fa de med U d M t le 023

As cmade elpg the tet transplated s geally into the abdom n C Router Ritma m d 923 ARSIX 10 4
Thep th | gy | e pl m of thet tis A II Sourman 17361 and A LINELL But J Surg 19 3 123 [236]

The surpical path logy of cut a d chron c en d dy it H L knersci use and J C Alexa Der J Ur l 1923 x 335 M roscopic exam n t n f s men t determ the to to copic examinity is ment of eleminate presence is minal vescult. FG Ballever and O I I rules J to 193 x 4.

Similar cultiss fit pit tectomy ditorificial with micrococcu cat ribalis. M J Box p J Urol 193

Surg 1 path 1 gy f th sems 1 ves 1 s J R D LLO a d F F BLASSIELL J Urol 1924 353 [237] The ff ct of nj cti g oli g l int th v d f n

J Brans J Lol 19 3 393 R pu nat on e perim nt with vas ig t D I MACHTA II J TEA ARDE JR J LIOI 9 t 12381 Th operat f el ph t as t If W I WALLER La cet 1023 cc 1 32 Light in trasfith g tala report of a case a d operate the que I G ORR Sing Clin

lm 10 3 1 1517 Misc flaneou

Thulgo I pat of frem phi JDB xx Bost n M & S J o 3 cl vt x 496 (238) Reur nee of uriay | | STR S FRG Am 1 5 rg 023

A t n e cuata g cystoscope R L Schulz I Am VI V 10 3 laxx 15 s report on the use of a tra end sunjection f urotr pin in the tre tment of inflammat ry affections of the un aryp sages G Besto t I hin R m o t Mr. z prat 15 5

Som general codrt sbang nithe incde ce and tr tment of cute g n ther F H Stree Th ra The francisco of the first file of the fil

11 166

My pe so al atg th T C STELL
WAGEN Th p (a 1923 3 11765
Some phases fig threal implicat a d the pre
n tion by atte ti t ert po ts the tre tin f
cute fin in the J Dark Le C | firms St te M f

1022 XXI 51 Cytuethros pyalam thod ft tm tf g that I W Oilzi A h lemed true vesse ! 13 1 208

A ympo m n th tr tm t of g n rhor P S Pelo ze H R Lotx (O Scorr a 10th Thrsp Ga 933 x 64 [238]

Via 1 gi 1 fk y u d sac l 1 parasacral
a thesi O 5 Lew Ley rg Cynec & Ol t 923

15 698 Freie belm Idt f plattilr ng tated by feep raduat n I volue ext I d rol méletch o 3 x 4 y MI un with ut mI som n I ing the re port la e JI I fres \ h lint \ M d o 3 \ \ \text{val} ou

SURGERY OF THE BONES TOINES MUSCLES TENDONS

Conditions of th B nes Joints Muscles Tendons Etc

Sgg to the priling feleting of the front fighther aming the foot gross Reference and A. P. LCAR Pelse med La 1923 o nd \ Picar Peseméd Is 1973 o Abnomilisofg wth (Indod) t phi diteo p thyr) B Z voga Ztech f (but h u (s k 1913 Ext 1 435
P th ge es fe g t lin blts f th bo es fepre Vin ts he f Geb et h Gyn k 9 3 1

Otmita (jelfrm) E \ Lock Of min (1 e 1 1 mm) E. V 1000K VII Cl. Num 93 687 The quit f late ht II MAA D th 7 tchr f Chir 9 3 | x 6 Acute o teomielt D I vi 5 th VI J 921

Aré més de cral co derat fosteomy ! t f hæmat g u re L M Bocke J Mich n St t Son 913 5 f Pag t d f rm ng osteomy lt M Son 913 with descript of the pecm I im I may th WEL Ah Sug 03 53 Gealizd tt fbosa with prithyrod tm and met tat calci t i i da m ta i prithyrou t m and met tat calci t i i da m taldiscu of the patholog al poc se i lin g os eo di t ph J W Dawso i J W S UTER I dn b Rh M J 9 3 n 42 [243 gh M J 0 3 n 42 Phocyst tits I R cklich Lé URF Bralli t a d kepre R II t mem Soc med I hop d P 933 v 63

n the use fyph | B Dirings | h tis oblighted h of solid state |
B turn s be garbo e y the t trade tis
flower for the best solid state |
J C Blood | h tid late tipe | J C Bloods |
J C Blood | h tid late tipe | J C Bloods |
J C Blood | h tid late |
J C Blood |
J C Bloo

M h med W bnech 9 3 lex 9% [241]

J hm M L 9 3 l 7

[241] 931

t I that with a Lylos of v u)
Ins OI Was J g 3 I vo
fection a that I T Han. b ud fr Ch fection 30

Se dg ttype i h ic the LWFn J foster oth t in hildhood I WEATH R E ١. et 976

The trigyalt to tf ter the tadh
mat definitis \ CR p \ U C D \ F J PO \ TO \
\ \ I H \ R \ d Oth | Loc R \ Soc \ Med Lo d 03 11

Late osteo-arte is ma f tat f phi CFL v piv B ll t mem Sou med d h p d I 0 3 3

to ec dary

Remark upon so-call d a thritis deforma (h uma told arthriti) L M WARFIELD J M ch g n State M

Soc 923 x 1 461 Chonic deforms g h umatism in two persons with he editary syphils P Har ter and J De ourr Bull et mem Soc med d hop de Par 923 3 8 XXXX 663 Cha cot s jo t associ ted with c ngenital syphis a rp t of a cae J JAN PO SAY J M d As Georgia

9 3 x 457
S pp at ng tabet c a th opathy d to ec dary infet P Paovi z a d F Coste Bull et mem So milet P PARON 22 de l'Coste Bandon Marin de di hop de Par 933 58 x 1 473 el ort mat 1 x 11 W Chur Re J J M M A 8 193 lx 140 Lx 10 Lx

met 10 3 1 46 Itolgy fm cul

The first state of the control of th

R me 93 x se ch 584 I aly ftraum toong ftleer t 5 mag u a d I aly ftraum toong file erismaguad pes MI ATTLA dP BRTRAND fre méd

923 878 lmm d t m b lization r wed f ctures f the ROITER I esse med Par 923 68

[242] Cg tal be fth ladet d adet detyl Soft g f th arp I s muluna and it pa ti l A DUDAN R mdd la Su se Rm nseque c

mem Soc a t de Ir 923 ct 58
Ma oda tyly f th I thad fith finge MIN facedatyly finited and an another face of the face belges did not fit his pot fit se fitubility to the face fitubility to fit se fitubility to face fitubility T be cul ft

t se tub i u re yn its a Et S g Gynce & Ol t o 3 635 S pp t t yn ti fth fl mucl d M Cler La D t b S g 19 3 1 66 mucl fth It is the deal poun of the first the last poun of the first the last poun of the first the last pount of the first the last pount of the l of the first te [242]

ca sed by b call s l C'Eurru Mid ki 93 Na fpabhla aft 1 th fifthm til f

nt the Me C FADIN Ch d mad d m m t 93 7 44 Thue fipolal the dg fspr bfidaou

cult M C) R Y d R L cr Rc Bull t mem Soc mcld h p d P 9 3 3 656 patid th hyd oc ph 1 as eport C P B knt ky M J q z xx 684 m diploem to fth rt b lool m as 0 m

frq ntprim y a se fp lc tre FI Cyriax 1 th Lyph T With the Jd h 193

The roe tg 1 gn f po adPrir Zt hrf rth p Ch f podylta bec 11. BRY dPir F Zt hr f rth p Ch | 923 xl | 47 [243] Acute osteom el t | fthe p | K Wontgers UTI | kr h Ikl Ch 93c 554 [243]

Actinomycosis and bl stomycosi of the sp e C H PARKER J Bo e & Jo at Surg 023 v 750 (244)

**Cotte lumbag treated by the injection of queen the Southan B it M J 1923 915

Abse ce of the sacrum a d the last two lumbar e te

bræ Desrosses nd Mouchfr Bull et mem Soc de ch de Par 0 3 xhv 128 at the sur I eck of the An abnormal bo v p oc f mur renden g operat n d flicult J Flore CE Bull et mem Soc nat de P 1923 v 1 504

Y 1 504 H WALDENSTROEM

The ental type f cova pl H Waldensiroem Lyonch 1923 x 390 [244] Jun! del rmig o teo ho d ti of the hip joint J Egovy Arh de med cru y e pecil 9 3 xi

The blod ve l f the l er end of the femur and their r l tion to p th logy A Nis BAUM Bitr z kln Chir 93c Som ne ponts cone g t umat c le ons of the meni c of the k c Taver ier 1 on chir 923 xx

The pathologic livil ed knee C 1 PARKER J Am. WA 931 98 [245] Genu lgum G Ro 1450 P I clin Rome 1923 xx e chir 535

Acquir d genu ur tum 1 I DF BERNARDO Pichn R me 93 r ez h 50
Hyd td ysts f th thia H Costantini II Du
Boccher a d A Molcher B ll et mém Soc de ch r

d Par 1923 lt 45 Two c e f ab C PEREMANS Two c e ce of the filul Ar h f a co-belges de chir 023 vvi 764 Cystic osteit of th ta due t go ococc li fect n Cystic osteit of the ta due t go ococc lifect n J Fiorir Bull t mem Soc de hir d Pa 10 3 vlv

37 Hall aru D M GREI Ld | gh M J 93 TX 598 Typ call case ith d metat ophal ge l A KOERLER Am J Roentg | 1923 v 5 (245 k hl d case f th m t tar ph lan eal jo t C ANNAL WILL 9 3 561 [246 [245]

Surge y of the Bone Joints Muscles Tendons Etc

The mal nd p thoi g cal fate of bet a splats E Lever At brug Sca d 923 1 164 [... The corect i bo) del mit es Kirschiver [246] Vers mml d deut ch Ges llsch i Ch 1923 The r Its f the mpl nt to of t u in rt 6 1 bo ed feet H Dr RUNNER Schwe med Wchn chr 921 li 7 [248]

The oper t e t atme t f be e f tulæ L KOLIN

Arth pl tv F W H & CROVE Brit J Surg 19 3 12491

1 th 1 th H B (ESTR \ Ole s M & 5 J 1931 1 4
F periode with the physical Italian of the sadt ult Bissisi Zische ferthop h 19313 Clcllrtn [250] th turing fte in O MUELLER Betr kin Ch. 93 \$ 74 [250] sers ti e perat n f r tube culos s of th Ibox

NOIE JOS ERAND Ly hir 923 1 8 7

Ice this cubl paralys of the radial entreated by the drap into the Terror Responsible terms and clineter property of the transform of the tran

9 1 Lxxx 575

Ope to roced r n 11 rotur O Onthe Z trail I Ch 923 1 089 I vper c in fee bo t pl tat not bercul pond I tis I K t Arch f rth; u U fall Chi

923 11 186 Re it of albees peut I C ver Deutsch Ztsch f Cl o 3 l x 158

A pew lep! t perat no ponisits l Picore
méi del SeRm 933 h 652
Lattempt at rad cal ci e (h zomel posis) i PEL VIEZ Arh fra co belges I hr 023 1 Good res its fr m resects n f f m ral h at in ch

arthitis f the hij to dars to defirm go teoch n Iti r co genitall at \LLL Soc I chrd P 923 1 1319 The surge litre time t f istendarth to fishe h p t D J Curst Med J but la 93 56 1 operati frth i flanklin fthelp.
1 D Diekso II I Di Eley Sirg Cl

19 3 739 Ote myelt fth I e lofth femu trat ! ! cured by a t t phylococu medical a fpu et r th pratt f deep b-ce. Fertre is il et mm.
Soc de h lei f 023 1 c 6/7 [251]
Amp t t n with pe l'ifre et th

mp tat f th this we ell and he we Auptre f the middle m c f th kee par 1 rem l with re y C MBt Mtk p 1 Oxt ext B ll tme So, I ch d I g 3 g S pp rat earthrt of th keed t trept occ r th 1 my f L a leure ft m b l zat I Mxts

th tmy f t n leure it m bleat I Marie Bull et mém Soc d h ! I r o s l rao Syn t ms l th kee j t chro th I los I lam M \ 0.000 or 1 lam M \ 0.000 o

[251] Llin Ch 1923 kin Ch 1923 4 [254]
Le dartho within fult in fifth if the delty le graft this miter it plit for distinct from the fifth of the constitution of the distinct from the fifth of the fifth of

1500

C rect f tm fltfsot (Cl h perat Jl Logo J \m \lambda \lambda \quad f tm fltfoot (Cl h perat) alou I W MAR de traibl f Chr o 3 1 080 Ath I times f up ttd f t FR ve MAN Ich f thp U fall Chr o ; w 2 The tech le feo truct f rti lumb a d apprtu R. Rai F Ach f th pu Ufili Cl 55

F tures and Di loc tion

The transfer the ed bill to the er it old ad bo H LLOFE Bill t mem Soc I hdPog! of frat adout! an male JT Rros The p Ga 933 t [251]

t (the tmt data) C ralpg u ded with frait es nithe fith froit WI I D ter MI Surgen 9 t 1 574

A ubet tute fo fr ture bed in case of fr cture th larg cat R C Wess J Am VI 1 19 3 h x Whit th best em f tees with a ecent fac tues 1 Line TTE tr h fran belges 1 h

X 157 Cmps lifestres fling bo II F CONWELL Jim 11 4 9 t | TT 604

The tatment i fracture by rthoped in thods S II B R TEL 1 dl J LA D MIN Ar h Surg OF 6;; Rectchage mict etet t M Stell

Bt W J 93 917 V penmat l ntr atralut t th tuly f W Life

I win th heal g ffr tur L Man s Pold Rm 93 v ez ch 33 [252 n h ft fra t res th tre tme t F]

n h ft fra t res th tre tm C TT Bost M & J o 3 lvcv 84 Th tre tm t f pseul th os 1313 t ff et Ruethbulllotnithshil pot

Ruet hbuilio in romanis per SBB ser Bt Ul Jost II Hill I bermill in fith I litered by whee with J ser II Vicer I Juli indem See dhid la 1931 6 1 1 1 timen See Children I days Ber I I I indem See Children I days Ber I I I indem See Children I days Ber I J I indem See Children I days Ber I J I indem See Children I days Ber I J I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I J I I indem See Children I days Ber I da

I fith to to the form the ted between the to the form the form the form the form the fither the fither the fither the fither the fither the form th

t. II 93 ct 4
Rre t flut fit lbo peteol to
fth d hll (R Ch I rg md சுந் ப 23 fg

The state of the s Which only [253 T mat les fith rit lite It esult RMSTIPC Lo b

9.3 12 3 Riff to jth set is O II BY A MOD firth U fill Choot 55 [284] J took I frant fith tittle Otom dJ R d ch I 1 3 1 54 The it for to fith per report [254] tig Oto RD

sest tilligth yers 100 10 Out histines 1 are 100 10
Out histines 1 are 100 10
Kpt fth thillem t the mpital
Lt fthim theal I max in t ich tl 11 Lu 1 g O N 1 R g 3 1

[255]

LI 15 g 03 808 It fth kfthfm (14 Chdid mt 93 5

Fract res of the neck of the femu W C CAMPBELL The feel of the feel of the think 1255]

JAm W Ass 913 lix. 1327

The fib la s b graft i r ununited fracture of the neck of the femu R V DOLERY Brit V J 1923 u 1 5

The end re lt fibet atm at of fractures of the ck

of the femur also a co trib ti n on n n-operat ment A HLEBNER KI Wich schr 1923 1 1 65 [255] Communuted fact e f the lower end f the femu osteosynthe by the tra patellar r ute good result Arctave B II et mem Soc de chir de P

12561 Th p og ost and treatm t of fractur f the leg and

Find esults in 100 p tients A P C Ashiers ankl and E T C ossay Ar h burg 1923 v 6 t

The indications for and technique of operative treat ment of recent closed fractures of the ankle DCVAL and BASSET Bull et mêm Soc de char de Par 1923 xlix

Two cases of open bimalleolar fracture with penetrat in

of the skin by the lone extremity of the tibia open re duct n GUIMBELLOT and ALCLAVE Bull et mem Soc d chr de Par 1023 xl x 1337

Orthopedics in General

The cli cls gnif cance f anatom cal van t ns in the I mbo ac al e son I Tanaka Aschi J E per Med 1923 1 49

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Vessels

o the la embol m follo ing pe ati n d inju es of the lg F RANZI a d O LEBREUT Mitt a d G geb d W d u Chur 9 3 x t 709 [257] A case of post I timal phi but a L J HUELNEREN d D W COPESTEL AM J D Child 1923 x 1447 E perime t l re earch n the changes prod c d in te es by co t son a t d n th heat L VALLONE

te es by cot son a tawn meat L MALDONE
MI man med 9 3 t ut 1 MARENESCO D I ALLIAN
AG D NOAMSSOO Pre emdel Par 9 3 t 1 40
1 t t. 1 upt d eun m H JACKSON Ja Med
The I toj gul rout D bgat I th extern I carot d
HARTOLES d BUYDER B II et mêm Soc de chir de

9 3 Y 6 An uri m f the lft subcl ian tery !g ton f the left sube! an try 1 the first pa t J CORBEN Med

J Autal 923 923 49 e sm f th fing C ord STOLZ Bill et m. Scantd Par 93 6
A utim of the lart ry M J Covros An

Sg 93 km 11 68 Prim y post tra m te som t d turbanca f equibram of the t mte L Lericie Lan h

9 3 1 746 f popl teal an un m 1 Marra Plcl R m 0 3 xx s ch 5 5 Taumat ne n m of the tena circ mil a fem ns

med is R Dyorak Med Klin 9 3 1 87 Algaterilan uri m f the thigh mulatig an tosa com Gaunter Bull et mêm Soc de chi de 923 xlix 8

Pithatet f th post 1 t bial rt ry th 1 lg dutig fi nzal pt czemia defin n nm fth igduring in near process terrent n eco ny Bris Et a d Warriers B il t mem Soc d chi d P 193 h 190 Vascul t e by th a d f a mpora y sou d

AVEAUOUTCE Ly chir 93 x 738 A AVANOUTE L) chir 0 3 x 735
The import in fat sem th d gno of her dit y
hamor h gic telangeeta rat in le fi time a d
pot f an ddi n l f m h T Frr Hich Ja Am J
VSc 9 3 cl 1884
R d um the py f cula n 1 H Mon on and R dum the py f cula n 1 H Mor on and LR Taus to Am JR ptg of 9 3 867

Blood and Transfusion

The at nof the blood h ldr R COVEAN LERNEY Bot M J 9 3 # 866

Sediment i nofthe rythrocyte by mean fadr p of a triocapill ry blood S BALACHONSKi Rev m d d

la S sse R m 923 vl ii 714
S psis a d eos phiha E Hacriez Deutsche me t
Weh schr 923 h 12 The durati n of the effect of auto coinat on in taphylo

corr c infection D De Blass Rif rma med 1023 A one on the effect of the intra nous dmin strat o of

mercu ochr m on the b cter st tc ction of blood J H Hill a d J A C Colston B !! Joh s H pkins Ho p B lt 9 3 xxxx 37

The ch le t in content of the blood foll wing the re moval of the ut rus d ovaries E De Bella At Ital digi ec 1923 1 5
Hyper holeste læmi \ O Wilensky \ \text{tnp Surg

023 Lx 504 Stude nio gglutinins the blood of the newborn B DEBL St J Am VI Ass 19 3 l v 1 776 [257 Blood tra sfu n L Carnova Arch it l d chr

93 tt 24 The traesfusion of blood and their dication for its u e

L CHEIVISSE A ch. de med cirug y e pecial 1923 xiii Observ to s in a ca of autot an fu in E Moovs VI amaschege ee L Tijdschr 19 3 i 189 [257] Inj cti ns of aut geno s hæm lysed blood i surgery

and e ternal d e se M Descarpevirtes Arch f 'n belgesd cha 93 xx 163 [257] P MINO Auto-aggl tinat on f h m red cell P belin Rom 9 3 xxx 5 z med 533 Spont n u coagulat on of blood II STEGEMANN

Mu ch med Wh sch 9 3 lx 833

Hæmother py nd the hæm cl st c rss P Mr.o

Pr eméd I ott xxx om

Hamother py nu the hear Pr e méd I 923 xxx 940
Th ham lyte cito of sodium cit ate \ VALAS SOFOULO B N et mém Soc méd d hôp de Par 19 3 3 (258)

Softon D is et airen social and a size (258)

Phys logical con d rati s oncern g substitutes for blood E at ler De tsch med Wchn hr 1923 xh 873

The p the genesa of the pr lo gat on of the harm h ge i the hæmogen c synd om s and in cases of true hæmophilia J Roslau Pese méd P 10 1 Kx

The hæm lytopo et c system in the primary næmias In mem tycope it e system to the primary naturals at h it h not on the lue of splenetomy E B krushuak am J V Sc 19 1 cl 1 329 [258]. The tatmet i perme u a mm by blood trans i H Goerrica D ut ch med Wehnschr 1933 21 1 1641

288

Lymph Vessels and Glands

Addit onal notes on the immunizing function of th subep thei all jumph tie gla ds K. H. Dicay. Lancet 1923 cv 1977 Observat us in a living m n of the norm I lymph trunks f the biturator r gion. Expected L.) n ch

923 xx 8 3
The teatme t of tube culous gla ds E F NEVE
P ctitu n 19 3 xi 362
Thet time t ft bercul scerul lad niti by ad um

Thet tme't it bereal scern lad nit by ad um
E S Molyneux Brit M J 0 3 86
M Ign nt lymph m (Hodgkins d ase) A rad ogr pluc study L R Whitarer A ch Int M d 0 3
XXII 138

The radiat on t eatm nt of Hodgkin's disease with

p rticulat efere ce to mediastin l in ol ement. A U DESJARDINS Radi logy 923 16 Th u e of radium in the treatment f the leukamias a d Hodgkin s disea e W H B AIKENS Am J Roent

g noi 10 3 853
Lymphos comata a d oth gla dula e larg ments
of the n ck th ir rad tion t eatment E H SERVYER
J Missouri St te M Ass 1023 xx 377
H ed tary elephantiasis T Reigns Beitr z klin Chir

19 3 exxix, 627.

Late res lts of s boutaneous dra nage with a bu of tub for elephantias of a l wer limb reco ery m attain d aft seven years. WALTHER B ll et mem Soc de chir d Par 1973 xhr 1394.

SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment

An teon th fallacy of u mg loobolf cth sterilization of surgical instrument R N YEE a d T B MALLONY B st nM & S J ro g clyxux 36 [259]
Mistakes and dam, ers 1 rg cal peration R STICE and Y MARKAS J n F Sch 19 3
Ta pl t to n in gener l and ta pl t toon f ski in particular G M FASHAN Rd fram md 1923 XXIII

odd Amodificati nof K se m thod of sk nt plant ton Y TAAMA An h J Expe Med no Skin graft by the Oller Thereth metor P P PRESET II the Med no Skin graft by the Oller Thereth nettor P P PRESET II the Med No Skin graft by the Skin graft of the Skin

f th uture 1 neparotonized and 38 D BEE Song Gym c & Ohst 19 3 xxxvii 604 Postoperat e tre tm t W D Gaines I tern t J Med & Surg 1923 xxxv 477

Anti eptic Surgery T eatment of Wound and Infe tions

The theory dp the f taseptes dg rancid M PITTAINN J MISSOUN Stt M Ass 93 XX
The bet mendal power of L g! of to S Las
Nowewext P i Lagaz let. 19 78
W nd teatmet with sulph d orade Rotts in
De the med W has br 9 3 xlix 27

Theet logy of dismoss feeta us E PCHLEMANN De t che V tijscht 1 Zähnch: 03 v 09
Tetanus istel 1 gy prophyl s and te tment with a port n cas s C F Graham Virguna M V th 193 1 480
The gical treatme tof b ms W E Lee Internat J M d & S g 9 3 XXXV 46

Anæsthesia

Anesthesia in bad operatic crisks. E. A. Tyter. Hahn
m. M. th. 9, 1, 766
De-etherization by mean f. carb. doude: hal
to with some ob reat non pim any 1, 11;
and ther tensoned ring. sistle is J. C. Willer. A. A.
S. & 1913. 347
Annesthesia. by g. 5-ovyge -eth. esal and gas-ovyge
chlo oform-etha esal H. E. G. Bowre En W. J. 19 3.

806
Repo t of a death f m cocaine poiso ing A M
ALDEN Laryng scope 9 3 xxmi 839
C llapse afte caine A knetcker Zt the f
Stomat 1 9 3 xxi 67

Experime 'tim etg' boos f the ff ct of n ocasis adr 1n nt blood pe r O Wiesanny D tch 2t h f Ch 93 (cknr 388 The technique of pin la sithesia C M Raestraw J So th C la a M As 93 ars 648 occure T Joy Spinish services to de de P ry 93 list 33 Tw th sand two h d d and fifty-si pin la sas the Diversory and Richer B III et mém Soc de

ch d Pa 1923 zlux ? Headach follown lumb a z the A Calm N De t hem d W hnicht o 1 zli 1 58

PHYSICO-CHEMICAL METHODS IN SURGERY

Roentgenology

Wilham Corrado n Roe tg a discussion n had disco y d his writings F SARACE. I Act te ap 1931 u 3 consistency of the Sarace of th

Mesaurem at f the X y p cture w th ele c to fore an body localizat a pel can surem a to bettere et c. L Deterstre Lep g Klinkh dt 03 to te to te

A brief historical review and the present status of roentgenotherapy W H DIEFFENBACH Hahneman

Month 1923 Ivin 711
Certain biological principles of rad ati n therapy S

WITHERS Am J Roentgen 1 923 7 6 [261] A comparative study of the efficiency f van us filter materials A W Erskeye and S W Smith Am J R e teenol ross x 83r

C neerning modern radiation therapy and its indications in the tree tment of certain bengn and m lig ant con dt s F S Bissell Minnesota Med 19 3 1 646 The ro tg n ray as a therapeutic agent dermatology

The limitat s n the radiotherapy of c ncer F C

the limitat s a the radiotherapy of c neer F C
Woon N Y kSt te JM 1023 xm1 446 [1262]
Object as to th u f the ne lethal dos method in m bran ney C H NMES R dology 10 3 143
D p V ray therapy G U PILLHORE U S N al M
Bull 033 xm 075
An app 10 the newer m thods of deep roe tgen the py J T Case N York M J & Med Rec 1923 cx m 368

12631 The t eatment of malg nt disease by the new high r oftage shorter wave leigth oc tight rays ad um a d lectrothermic coagulation J T Steve s J Med Soc

The t chi que f d p X ay th py from a physical ta dpoi t E Ponle d H Jarre Leipzig St inkopff

e teen th apy and kin react s P DEL BLONO Am J Roe tr ol 9 3 745 [263] E te si e ced ma following inten i X ray t e time t wo d of w m g C C ANDERSON A ch R diol &

El ctrotherapy 1923 111 2 7 The 1 terpretat on of th effe t of radiat

The 1 terpretae on of the end to be larger 1 NE Str blenth rape 9 3 x 98

The eff ct of X ays f differ twa el gths up n some m ltiss 3 S Riss L cet 9 3 c v 637

the d closure the d closure to the d closure to the decision of the decision the d elopm t Th impo to c of \ av absorpt of the centgen e t n L PETRY Wien klin W h sch 1023 XXT 38

Injunes of deep tissues resulting from the use of the roentgen rays E MUEHLMANN and O MEYER Strahlen therapie 923 XV 48 Roe tg n ay intorication S L WARREN and G H WHIPPLE I Am M Ass 1023 lxxx1 1673

Radium

An instrument for the intol nistion of bare radium em tion tubes into the tiss es W NEILL IR Am I Roe tgenol 10 3 x 871

E perime tal studies on the general effects f exposu e rad um o metab ! sm and t mor growth in th rats d the special effects in the te tis and the pitu tire C MOTIRAM and W CRAMER Quart J E per Phys I

1923 x 09
The b logical po ts of attack of the rad m rays FERNAU Strahlenthe apre Q 3 XV 532 [264] News niet gat s of g mm ray dosage of r dium O Glasser J Rad ol 9 3 iv 386 [264

[264] A repo t on the results obtained by the use of radium in the t atment of two cases of epithelioma Dasque a d DURAND DASTÈS I de méd de Bo deau, 1021 xc

The cha ges p oduced by rad um in ep thel omat C GARGANO Ann tal d chir 923 1 93 [264] Tleact nofred other mupon 1) ts Ishipo Strah denthe ap e 923 XV 537 12641

Miscellaneous

Should gene 1 h spitals e t b! h departments of physioth apy? J H Krilogo Modern Hosp 923 xx 12651 The pla of me pil to and correct e symmastics in treatment R Tair California Stat J M 1923 x

Pactic I hel otherapy W G TURNBULL Atlantic M J 9 3 VII 32
Th t chin que of hel othe apy C SCHAEFER Trained

N rse & Ho p Re 1923 lxu 515

MISCELLANEOUS

Clinical Entitles-General Physiological Conditions

The taing cate sof by dat depots G Cameron M d J Au t 1 1923 in 54 Graud ma coideds J F Prierr and N E Blod ch ge n pont ne sg g ne W A GLE
Bowtrsch V handl d R s Ch Ko g P trog ad [266] Rd al teatment of ginge of the externates L CHEIN SE Pe med P 93 xxxx 84 The hab ts (e | gy) ftumor J BLAND-SUTION Brt

J 9 3 847 mel in m la om melanotic cancer 14 G SPE CER Brit M J 19 3 11 907 [266] St t t cs o ca ce Swit lad o 92 A RENAUD Re inted del Su se R m 193 li 433 [267] Lo l r s stan e to spo t n u mouse ca cer indu d LO 17 s stan e to spo t n u mouse ca cer moun o by Yrays JB Murrent J Maisty and E Strent J E pe Med 1933 x ni 645 Mult ple 1 cal t s f ca ce C Staj mo and A Sáesa An F c de med U d Mo te de 1913

Prim ry fib obl stic sarcom of the f scia lata L Godni Pichn R me 19 3 xxx sez prat 281 Cla matocyte and tumo cells a cult res of m u e sa coma W H Lewis and G O GEY Bull John H pkins H p Balt 923 vt iv 369

General Bacterial Mycotic and Protozoan Infections

Pathogenicity of stepto c D Ferraccity Riv tal d gin c 19 3 H 80 The completion of st phylococcu f cal infe tio s L. M. Morris Arch Int. Med 923 xxx 746 An 1 tra e u m thod fo the ea ly d agnosis of tube cul s s the gur ea pig S A LEVILSON Illino; M Y

1923 Iliv 360 The te tment f tuberculos s by Grimberg's collo acci e Hallopeau Bull et mem soc de chir de Par 1923 xl t 1256

Agglut n ti n experiment with Fornet's su g cal tuberculos: A KOHLER KI erum in Wch schr 19 3 11 635

Su greal d se ses as complicate s of typhus A GRE GORY De t che Zisch f Ch 1923 lixxi 66

Ductless Glands

I perm tl studis on the relatified for our control of the most of the three studies. S Javanot dA Watthraw Mitt ad Geng bd Mediu Chi. 9 3 xx 1 306
I traveno perton fe letum chio de t tamp dd hoby de Pa. 9, 3 xx 1 xx 48
I the tet chin of a colorum studies in the tet chin of colorum of the day of prathyrid t et n ling doses P Santrov B II et mem Soo midd dhoby de P 19 x3 xxxxx 1811

The studies of the studies

Surgical Pathology and Di gn sis

A new alkaline so ution of fod ne f r use in th Gram
stan R A Kildurre. J hm M Ass 1022 him

218: If t logy of a my l ma T H BURLEND and D J HARRIES Bet M J 925 i 8 s

Experimental Surgery

The relations figgry diphys light I S Schitz Lancet 9 3 ccs 915 [269]

Hospitals Medical Education and History

A report o the pogress of medical and grym Icle d STR WILLIAM I DE C WHEELER LA 179 J 160

The d nof rgry but that lad gym lgral per tin J W 1011 N Y k W J k W d K 193 c 1874

Som pobl ms in medical ed cato C P Lowit J Lac t 193 y July 501

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H. MARTIN Chicago
SIR BERKELEY MOYNIHAN K C M G C B Leeds
PAUL LECENE Paris

SUMNER L. KOCH Abstract Editor

DEPARTMENT EDITORS

DEAN D LEWIS Gen al Sugry	ADOLPH HARTUNG Roentgenology
CHARLES B REED Gyn cology nd Ob t t c	JAMES P FITZGERALD Sur, ry of th Eye
LOUIS E SCHMIDT Genito U in ry Surg y	FRANK J NOVAK J Surgery of th Ea
PHILIP LEWIN O thought C Sure av	No and Thot

CONTENTS

1	Index of Abstracts of Current Literature	Itt
11	Authors	ıx
Ш	Editor s Comment	x
IV	Collective Review	291 308
v	Abstracts of Current Literature	309 371
VI	Bibliography of Current Literature	372 392

Ed ton I commune til ns hould be nt to Franklin HM run Ed to 30 NM hign Ae Chego Ed tori Ind Bn Offi 30 NM chgn A Chigo Ill no USA Pbl h fo Gret Brit nBll Tind Il & Co 8 Henritt St Covent Grifen London W. C



CONTENTS-APRIL, 1924

COLLECTIVE REVIEW

201

216

316

317

DISMENORRIGES D no l II B oses n M D M pol s Monnesola

SURGERY OF THE HEAD AND NECK

Fish g W H Lost perat Infect Pa tit's

DE REASKOVICS L. A N w Oper t n f r Pto

ith Sh tem g of the Le ator d Tars s

KNOX R Cranial Rad of aphy

Head

Eve

ABSTRACTS OF CURRENT LITERATURE Nose

300

300

200

Fractu es

Mouth

COHEN L Immed to and Late Treatment of \ sal

GILLIES H. D. Def. om ties of the Syphil tic \ se

ATES \ L The Simul ton f Acti Pulmonary Tubert lo 1 by P ! ss M till y St stt

ZENTMAYER W Th Ma gement f Het r phots	3 0	M RSHALL J \ Chang s 11 Tooth Structur Re	3
IRONS P P n 1 BR w V F V L The Et 1 gy f	3 0	THOLEN I F Dent I Imp cts s and Th ir Se	
Mills L Amort clit Ocur gnthe Cours f		q læ	31
\ Dyse tenc Amab s Torox b I d t my 1 Glauc ma \\ Te h	3	Neck	
the	3	DIOCLE I II Some Ob errati s La yngolis	
Butter T I Subc nju t al D loc t n of th		ur nd It T ch que	31
Cystall e Le with the R p t i Th	3	No ak I J C can ma f the Larynt	31
Minus L. Pha oe e	3	RO ERT C W P tf II in the Managem nt of	31
Noter J AC punt ! Ip S fety Fl p		II BARD R S nd WEB! C W Ac to e in th	٥.
Cat ctEt ct API f It Adjt a aRtePocdur	3	E p ed 'li f Go te Pat nt \ I Few D te min ti n f the Cha ges i Blood Acet ne D	
Thou son t H Chon Go rhoealP ttt		Th T lOpe t St ly II Th Thyr 1	٠,
P ll It lg IF t i C tai Infl m matons fthe I — With I epo t f C es	3	HERT LER \ 1 Pel ic I nd g in 100 C e of	•
Girr go S R I t trol log t th	,	Torac C t SEILM. A Roentg n Therapy n I phthalmic	31
Treatm toll te Ort At ophy	3 2		31
Array J J The Th quair tn f I tract nual W ric Bhld I i t	3 3	Borrio dClara III (Pelmi vR	•
CARVILL M Bt mpo 1 C nt ct f the Feld	-	port of the Acti n of B sed R ! m n D sed Thyrod n Man	3
of Vinilg ; Signer A.W. HEASE VR. Hm. pag	3 3	Tyler A 1 C n ma f the I mul Thy od	3
the SICI II to Utride adity		th Meta tases 1 th L ng	32
Syphil	314	SURGERY OF THE NERVOUS SYSTEM	
Ligi, Its Ait Hist log cal Rese ch			
a la a Ret em t n Ophthalmic Diagno is	3 4	Brain and its Coverings Cran al Nerves	
BENFIRET W. L. d. M. Tr. M. S. Infl. mmato.) Ise do-T m. f the O bit		FRILITY ALL II ni BRITISTEN MI La 1	
Ear	3 4	Frm of Ft in n I rul t Out s Med with Special Refer et In 1 em ntof Cr nial	
F EED VM LD H a ! BREITSTEE M I Unu ual		' nes	31
Frm. of 1 stens P rul pt Ot us Media		Houses C M Th Clncal Manfestat n of Ce bral Tumors	
with Special Reference of a limit in the land in the l		WINTERSTEE 1 or of Michael a shall amin	32
KERRISON P. D. I icati ns f. Surgical I t rien	3 5	Cord Cord in is I the Bras n I Sp nal	
tю i Acut Sppurt n fth Mdil Ea	315	RAI EY W R d Astrono I B Sept Meni gi	32
Mcke rie, D Discussion Lab ri th Deaf ess	3 5	115	32
	1	n	-

COLP R Ext mal D od nal Fist la

JONES N. W. Heocaecal Incompet ce. A Clin cal An lysis t ooo Cases with Some Ded ctions Ther from

311

Spinal Cord and Its Coverings

McVfion J F Exp rim tal Cord Cru he with I' pec I Ref ren e to th Mechan cal Fact rs In ol ed a d 5 besq nt Ch ng s in the Areas f th Cord Affected	3 3	JONES N. W. Heocarcal Incompet or A Clin cal In lysis I coo Cases with Some Ded ctions Ther from Corner G H a d BROOKS B I testi al Obstruc- tion	331
SURGERY OF THE CHEST		Jacobsen H 1 Ival s of the Cacum	333
Chest Wall and Breast		VI YER, R E Carcinoma a d C d of th	334
MILLER E M and Le vis D The S guifica ce of Serohæmorrhagic or Hæmorrhagic Discharg	324	CARMAN R D d FINEMAN S The Roentge o- l gual D agnosis f Dis a es of the Colon HELMHOLZ H F Ch onic Ulcerati e C litis in	334
WALTHER H.E. Roe tge Ray Treatme t f Ca		Childhood	335
ce of th Breat	324	BOLLING R. W Partial Colect my f r Megacol n Kelly H A. d Ward G E A Clin cal St dy of	335
Trachea Lungs and Pleura		Rad um The py Carcinoma of the Rectum	335
TYLER A F C rein ma of th Lingual Thyr d with M tasta e in the L gs	320	Li er Gall Bladder Paner as and Spleen	
SPASOKULOTZKI S I The Diagnos s and Tre tment of Thorac c T m rs	325	Moody R O Van Nuys R C and C take RLAL W E The Posits of the Stom ch Li er and C lo	317
Esophagus and Med astinum		Backoff F W Chro c Ch lecyst tis Witho t	336
Rover of T Anteth cal (Esoph goplasty nd a	32	Diamo p J S A E penme tal Study I th M ltz Ly n Tet th C mme to the	330
Case J T Th Te h q of kadist Therapy f (Esophage 1 C c oma	3 5	Phy 1 gy f the Gall Bi dd d Sph cter V ten	337
Mi cellaneous		N ly 300 C e in Which th G ll Bl d3 Was D ed—N t Rem ed	537
VL SON P P Err is n th D gnows f Foregn Bodi s in th Ar Passag s	3 6	SUZEMONDY W F Th Operat Re ult of G II Bladder Surgery n th Le † Cl c	338
SURGERY OF THE ABDOMEN			
		M cellaneous	
SURGERY OF THE ABDOMEN Abdominal Wall and Peritoneum D UTSCH I Ope ati ns f I gui 1 Herbin in I farco	327	M cellaneous AAPPIS M d G RI CH F The Impo ta of P ra ert brall j tans of No oc in Diffe ential Diag	338
Abdominal Wall and Peritoneum D. OTSCH. I. Ope att ins f. I. gm. 1 Herma in I. farcy Gastro-Intestinal Tract	327	M cellaneous KAPPIS M d G R1 CH F The Impo ta of P ra ert bral I j ti ns of No oc in Diffe	33 ⁸ 339
Abdominal Wall and Peritoneum D orscii I Ope att ns f I gm 1 Hernal in I fave) Gastro-Intestinal Tract Monor R O LAN VIVS R G and CHAMPERIAL W E The Posits in of the Stoma b L a d		M cellaneous harris M d G Ri cer F The Impo ta of Fra ert brall j ta nio No oc in Diffe Grace Collary S Th I reat in fitty thele as in 1 ddh si as GYNECOLOGY	
Abdominal Wall and Peritoneum D orsert I Ope att nas f I gm i Herma in I fave; Gastro-Intestinal Tract Victory R O Lab Views R G and Champfrial. N. E. The Posit in of the Stoma b L a d	327	M cellaneous Narys M d G RI CUT F The Impo ta of F nare the Bull J ta nsof No oc in Daffe cettal Dag CROOLAF S S Th I rvatu n f I tr 4bd m in 1 kdh si ns GYNECOLOGY Ut rus	339
Abdominal Wall and Peritoneum D UTSCH I Ope att ins f I gim i Hernia in I farcy Gastro-Intestinal Tract Monov R O LAN NUTS R G and CRAMPERIAL W E The Posit in of the Stoma h L ad GOSPILLE D The Fet of Did is G Inc.	327	M cellaneous Marys M d G RI CHF The Impo ta of F an crit brall j ti as of No oc in Daffe GEOGLEPS S Th I reat in f I tr 4bd m in 1 bdh s as GYNECOLOGY Ut rus Ut rus Ut rus Ut rus Ut rus GYNECOLOGY Ut rus	339 34
Abdominal Wall and Peritoneum D UNSEL I Ope at uns f I gus i Hernes in I farcy Gastro-Intestinal Tract Victor R O LANNINS R G and CHAMPSELAL WE The Positi nof the Storma b L a d Col a GOMPAU F D The F ct of Did u G tne Landing	327	M cellaneous Sapris M d G rich F The Impo ta of F are thail j tins of No oc in Diffe cettal Dag Concolary S S Th I rout in fit the many of the second of t	339
Abdominal Wall and Peritoneum D orser I Ope at in set I gui i Herus in I fave) Gastro-Latestinal Tract Victor R O Ala Nevs R G and Chamberhall. E The Positi nof the Stoma b L a d Col a GORRAF F D The Fct of Dil u G tnc Analysis Vosti Lann E G t a d D od al Uc in Strimms F Observati na po the N to Dag Strimms F Observati na po the N to Dag Strimms F Observati na po the N to Ga trac	327 327 328	M cellaneous Marris M dG Ri cur F The Impo ta of Fra et brall j ti as of No oc in Dafe citial Diag Gencolary S S Th I rvau n fI tr Abd m in I With si as GYNECOLOGY Ut rus Utra Us cog ized Ca c m Autwarm K Th Nobst tut f Irrad t f r	339 34
Abdominal Wall and Peritoneum D UTSCH I Ope att in Sf I gim I Herma in I fave) Gastro-Intestinal Tract Victories A. New R G and Champfralat. R The Posit in of the Stoma b L a d Col a GORRAF D The F ct of Did in G tine Vanitys Nopio Lann E G et a d D od al Ule in Surmins F Observation pool to be the to Dag ones and Clin cal M ag m t G tine Uleer wit king set in of F Rat all Region	327	M cellaneous Mapris M dG Richt F The Impolia of Pinnet the Bull ji this of No oc in Diffe central Diag Gencolary S & Th. I rivatu n f I tr Abd m in I With it no GYNECOLOGY Ut rus Utra Ut cog ized Ca c ma Netwither M Th. Sobstitut j Irind t f: Operat th T tim tof Utine Canee Lauct L R is fift d to fr tement f Ca. Barth L R is fift d to fr tement f Ca.	339 34 340
Abdominal Wall and Peritoneum D UTSCH I Ope att in Sf I gim I Hernia in I farcy Gastro-Intestinal Tract Voorov R O LAN NUNS R G and CRAMBERALL W. E The Positi in of the Stomas b L a d GONEW F D The F ct of Did it. G inc Summer F D The F ct of Did it. G inc Summer F Ob real in Sp in the Number of Summer G of a d D od al Ulc in Summer F Ob real in Sp in the Number of T atment Ulcer wit Nog estim sir R Rat and Region of T atment	327 327 328	M cellaneous Names M d G RI CHF The Impo ta of F an cri brall j ti and No oc in Diffe GEOLOGY S 5 Th I reat in filtr the m in I Wh s as GYNECOLOGY Uras Uras GYNECOLOGY Uras Uras GYNECOLOGY	339 34 340
Abdominal Wall and Peritoneum D UTSCH I Ope att in is I gim i Hernia in I fave) Gastro-Intestinal Tract Moony R O LAN VIEW R G and CRAMPRALAT. W. E. The Positi in of the Stoma h L. a. d. GOSPLUS P. D. The F. ct. of Did it. G. tinc. With the Company R. C. a. d.	327 327 328	M cellaneous Names M d G RI CHF The Impo ta of F mert brall j tins of No oc in Diffe central Disc CHE The Importance of the CHE The Importance of CHE CHE The Importance of	339 34 340
Abdominal Wall and Peritoneum D OTSCH I Ope at it as f I gu i Herma in I fave; Gastro-Intestinal Tract Who The Positi no fite Stoma b L ad Col a GONTAU FID JOHN LOS THE POSITI NO fite Stoma b L ad GONTAU FID JOHN LOS E G t a d D od al Ulc rs Summars F Ols reat in s po the V to Dag cass and Chin all V ag m t i Ga fric Ulcer with Sug reit as f r Rat and Region of T atomat United The Printed I Gustric Ulcer & Value The Printed I Gustric Ulcer & Trictified I P Printed I Gustric Ulcer & Trictified I P Printed Gastric Gustric Mode Ulcer Septemen in Fifty Three Class Ulcers Experience in Fifty Three Class Ci Sov C L. The Treaten t f 1 Hoof Class	327 327 328 3 8	M cellaneous Napris M d G RI CH F The Impo ta of F naret brail j tins of No oc in Diffe cential Diag GROOLAF S S Th I rivati in filt that me in the sins GYNECOLOGY Ut rus CYNECOLOGY Ut rus GYNECOLOGY Ut rus Attractur K Th Sobst tuit if Irnd t f: Operat th T int fold in film d to f: Cynecology And rus land Per Ute ine Lond tions Consalart W I ta bld mi Illem high film R pt d Goog a Lattium with the Symptic in Rize C N S A Singl M tool of Testing the Faticny (f th Blup Tube)	339 34 340 340
Abdominal Wall and Peritoneum D UTSCH I Ope att in set I gus I Hermas in I farcy Gastro-Intestinal Tract MOMON R O. LAN NEVS R G. and CHAMBTRIAL W. E. The Positi no fithe Storms D. L. a.d. Col a GOMPAH F. D. The F. ct. of Did it. L. a.d. GOMPAH F. D. The F. ct. of Did it. L. a.d. SONTHINS F. O. t. a.d. D. od. all Uc. rs. SUFFILMS F. O. Us. ratt. rs. po. the 'N. t. D. Dag SUFFILMS F. O. Us. ratt. rs. po. the 'N. t. D. Dag Uller with Sug rest in sir. Rat. rat. Regins Uller with Sug rest in sir. Rat. rat. Regins Uller with T. D. drove the Sup. right Via. "Thu F. W. p. drove d. Gastrice Ultern &c. cording of the Reports of th. Ob. th. Hospit II STRICTHER Experies: in Fifty Three Clases Cf. Son' C. L. The Treatm t. f. Hour Class San ch. Sanke J. N. M. The S. gual T eatm stof Gastric	327 327 328 3 8 3 9 3 9 330 33	M cellaneous Narris M d G RI CHF The Impo ta of F an ext brall j ti and No ex in Daffe Genociary S S Th I reatin f I tr 4bd m in I Wh si as GYNECOLOGY Utrus Utrus Utrus GYNECOLOGY Utrus Utrus Utrus GYNECOLOGY Utrus Utrus Utrus GYNECOLOGY Utrus Litt Utrus Consalart W I ta 1bd em I III em h gefr m R pt d Copp a Lat um w th the Symptons REAL EY N S - N wml M Utro of Tetting the REAL EY N S - N wml M Utro of Tetting the	34 340 340
Abdominal Wall and Peritoneum D UTSCH I Ope att in Sf I gui I Hernes in I farcy Gastro-Intestinal Tract MOMON R O. LAN NEYS R G and CHAMBFRIAL WE The Positi no fithe Stoma b L a d GOMPAN E O. The F ct of Dil u G inc Naminus ODD LANN E C : a d D od al Ule ri Naminus ODD LANN E C : a d D od al Ule ri Naminus ODD LANN E O : a d D od al Ule ri Naminus ODD LANN E O : a d D od al Ule ri Naminus ODD LANN E O : a d D od al Ule ri Naminus ODD LANN E O : a d D od al Ule ri Naminus ODD LANN E O : a d D od blue ri Naminus ODD LANN E O : a d D od blue ri Sufficient OF a time of the rich of the Chamber OF a time of the conduction of the Chamber Of a time of the conduction of the Chamber ODD LANN E O : a conduction of	327 327 328 3 8 3 9 3 9 330	M cellaneous Narys M d R R CH F The Impo ta of F nort thall J to nso Vo oc in Diffe cential Diag Genociary S S Th I read in filt thad in it which is as GYNECOLOGY Ut rus The Cobst cut in Imma to filt than the Companies of the Utility of the Cancer of the Utility of	34 340 340 34 34

LA ROQUE G P Pus in the Pel 1s of Women	341	Puerpersum and Its Complications	
NORRIS C C and MIKELBERG H B GONOCOCC I Infections in the Lower Genit 1 T act of F male Infants and Y u g G ls with a Report of 100		ROUVIER J M Seve e Puerpe ! Eclamp ia with 40 Crams f Albumin T ted by La ge Doses of M rphi Early Diu e i C e	34
Cases	342	GRAGERT O Th Puerperal Mo bid ty n Case of T chom n Colput's Untreated and Treated	
OBSTETRICS		Before Del very Liss W The I fluence of Trichom nas C lp tis	34
Pregnancy and Its Complicat ons		pan Perpe 1 Marh d ty	34
CARVILL M Bitempo I Contra t n of the Fi lds of Vis on in P eg ncy	3 3	VORON J Dt AD P and SEDALLIAN P Re marks on the Et logy i Puerperal Infect ons	34
DAVIS C H W ght i P gnancy Its V lue as a R time Test	343	ELLERBROER N The U e of Co tinuo Drip Irri g tion in Puerper 1 Fe er Sar ord II B Th Surg cal Treatment f Puer	3
CRATON Se e Anamu During P gnancy T at m nt by R peated Blood Tran fusions C e	343	peral Infectio	35
KAEN M Changes n the To æm a of Pegna cy	343	Newborn	
HERZFELD B The Sympt ms of R ptu e of th T be 1 Extr Uterine P egnancy	343	LORIOT A St 1 st cal Study f th L ngth of the Umbilical Co d Based on 1 000 Cases at the	
Mt DELL, J J A Cae of Pegna cy n a D ble Uteru (Uteru D d lphys)	344	Obstetn al Cim f Mars ille O KEE E C D Th P tmatur Child	35
POECK F The Effect of Hyd am ion po the Life Expectancy of th Child	344		3
VANVERYS J Col n B cillus I f ct on f th Un	511	Miscellaneous	
nat) T ct and of the Vagi a O cu n gD ing Preg a cy	344	FRA LL O The R lat Bet ee the Plac uta	35
ADAIR F L Some Obersation Place t l In	34	Mothe It I flet n Beat Fed Infa ts	35
DEBROWTER E Stat tes n th T tm t f Febril Aborti	345		0.5
Ozie a d f th Uten Cerv th Lag		GENITO URINARY SURGERY	
Met st the Mesos gm 1d	34	Adrenal Kidney and Ureter	
KREISCHMER H L Pylts f P gn v FALLS F H Pycitis f P egna)	353 353	REHN R d GUENZBURG L F ct n l Kidney D agn s with R spect to Bod ly React in	3
Labor and Its Compl cations		KRETSCIMER H L Pyelts fP gn cy FALLS F H Py hts of Pegnan y	35
LELIER R \on Rot to f th Had D g		HERST IC The Tree trans to f Pulit shull of all	35
Spo ta ou Del y METECER d LLOU U Dyst ia D et Right f	34	C thet riz t nad I still tin f th Kid ey	35
the Cr. Follows g R dium Th py f C	34	SMITT & C T n pla tat n f the Uret r nto	
tre ISte fth Ce vFoll gth I tr	3*		35
tre 1Ste fith Ce vFoll gith I tr	34	Bladder Urethra and Penis	
MENET I The Method Effe t d D Lets 1		WISCH ENSK! A W Oper tie T tme t f St t f th U tha by th I mat on of a	
th Administration of Pattan Obstant McCord J R Middlesom Obstan	346	Ca luz d U than C trical T saue	35
HOLMES R. W. The R late hop i Ut pl t l	346	Genital Organs	-
Apopl y to Ablat Pl ce t	346		
BERNADAS H E Abrupti Pl e te Keller R The Rupt f th Artiul t f	347	TI OMASSON A II Chr n Gon rheeal P ostatitis P s bi Ft los cal F ct r n C rta n Inflam m t of th Eye-With a Report of Cases	
th Plusad It Rhat to the Mich mil	34	W LENSKY A O nd Symples S S Acute D for	31
PETTERSSON A 5 Complet Crc Aul f the Port o V g: D n g Lab	348	tti nd Fun cul t s	35
Schw BF The T tm at fPf t f the Utru	348		
SAINT BLAISE DE MEZER d'LE LO IER DIS		ANYERTS J Cln B cillu Inf ctio of th Un ary T ct d the V grn D ring Preg a cy	14
c of Method flocedu Rttnoi Membra	349	WOITASCHEWSKY J B The Tr atment of D t b n f Urin t n w th Magn s um Sulphate	34

SURGICAL TECHNIQUE

Conditions of the Bones Jo nts M scles Tendons Etc.

HERRY F P Girt C ll T m r

HAMMOND R R at n of th Shuld r F	356	Ope ative Surgery and Technique Postoperat ve Treatment	•
I w g B v I) r)	36	FISHER W H Postoper t e Inf cu e Parot ti	
CLEVELAND M S ppurat Tn yno it of th	3,6	DE BLASKOLICS L A Operate fe Prous	309 309
HA AVEL, A B Tube cul 5 Tenosyno t of th Ha d \ Repo t of F ricen Cas of T bercu	••	Toron E I idect my in Cla coma A N w	
l us Tenosyn 1tis	3 7	Dicule F II Some Obsert t n n Laryngofis	3.
COLVEN A R Som Deabiltes of the Kn Just	357	Sure a d It Techn que Winternitz A New M thod a th Spic 1	313
Surg ry of the Bones Joints Muscles Tendons Circinophe L. Résear h n B e C fis F ed n	Etc	Treatment of T m rs ith Brain and Si al	32
Alc h land th M cha ism of O teo es N regler Sir N I b C Co trib tio t th D s-	358	Rov tag T Ant th racal (Esopha pl sty nd a	
u i n n Arthr platij	3 9	Wischneuser t W Ope att Teatme t of Strictue f th Urethra by th Form to of a	-
GFSSA R If B Arth op! tv	300	Ca lited Ur thr n Ci atri l Tios e	3 4
MUELLER W. A Typ. I Roentgen I y Pict re f O teoch drits: D forma Coxe Ju lis Tak n w th th II p I'le d n I Ab I t d	36	WHEELER S W I DE C Amp t t n W th Special Reference t the Si Amputat n I the Thigh in Sentelly y d D sease	360
WHEEL R SIR W I p C Amp t t W th Special R fe c to th Sl Amputat		PERTIES G Curvin rOt tm of th Th	360
of the Thigh Se I jirs d Di. Perra G Curvil Ote timy f th Tb	36	HERTEL Cles um lEst n n with the Foot in	36
in Ge u \ laum 1 C u \arum	30	KONESCH F The Re te liz t n of Catg t	367
		REE H AF rth r Repo to th Clm al Us i	307
Fractures and Dislocat ons		C t Sube tis Tra plant to	367
Cowell H F C mpoud F tues f Log Boes	36	Antspic S gery Treatme t of Wou ds and	ı
HERT L Calca e m \ 1 L t n 10 with the Footi	35	Infections SCIOE B UFR L a d DEMEL R I est att n of	
1SHH T LPC ndC St F T P g on dT tm tofFatues fthelgand A kl	361	the Bact rist in pu Ope attive W rids d the B h of Dr a e viat n i	3 7
SURGERY OF BLOOD AND LYMPH SYSTEM	MS	MELCHI R E d Lt BINSKI H The B ten lo-y f th Cl ed Gra ulating W d	367
Blood Vess 1s		Anæsth sia	
For C ad Mas 1 Th Synt me f the Po-ters Cr bral 1 trs	363	T OFFER W dWHELER SIR W I D C Antes thes from th Sig o To t 1 l e	358
LICKE Bad REAM H Mounters Mor w Had Talsc LR Rd m Th py	363	Strato H Anaesthes f Childre	368
of V scula Na	354	PHYSICO CHEMICAL METHODS IN SURGE	RY
Blood and Transfus on		Ro nigenology	
CHATON Se ere Anzemi Ding Prign Trit		Lov R Cra al Lad ogr phy	300
m nt by R pe ted Blood Transfu o Cu L TIES L Tru Hæmagelut at o d Pse do	343	SHANN R Roctg ThrpynFpthlms	319
Agel t nat n n Blood Transf n RCH H O a d ICCLELLAND J F Intraper	364	WALTHER H F Roe tgen R T tment f Can fth B t	3 4
tone I Tra sfus it in I fants	364	CARM V R D and F1 EMIN S Th Roentg o-	334
ROTHE E Th V 1 e f Blood C ll Sedum tati n in Surgery	36	MCELLER W. A Typ cal Roentg R v P cture of Osteoch drit D f rmans Co z J hs	337
Lymph Vessels and Glands		Tak with th H p Fle ed and Abd ted	360
WHITAKER L. R. M lignant Lymph ma (Hodg Li Di ase) A Rad ographic Study	36	WH ER L. R. Malig at Lymph ma (Hodg kin's Disease). A Rad og aph c St. dy	36,

INTERNATIONAL ABSTRACT OF SURGERY

Cooled High \ It ge \ Ray Tube	369	C rebral Tumor	32
RIEBER F St da dizati n f Roentgen Output GOFTLIEB C The Us of Ivodosi Curves in X Ray Therapy Show og the Inaccu acy of the Des sauer Charts	369 370	MILLER E M a d Lewis D The Sign ficance of a S ohamor hagi Hamorrhab c Discharge from the \ pple Mood R O M. \ \tak S R C a d Chamberlain	32.
Cuseway B C Th Pre ent St tus of Deep \ Ray	30	W E The Position I the St mach Laver a d C lon	327
DESSURE F The Treatm at of C retnoma with the Roentgen Rays Lecture on the Physical Bas of De p Therapy WARREN S L d WHIPPLE G H R tgen Ray I to icat on	370	JONES N W II o ac I Inc mpete ce A Clin cal Analysis of 2000 Ca es with Some Dedit t s Theretrom Coprints G H and BROOK B Inte ti al Obstruc ton HELSMOGE H F Chronic Ulce att e Colit's in Childle of	33
Rad um		BANCEDET F W Chronic Clolecy titis Without	33.
Bower J O and CLARA J H A P el minary Re		Stone	335
port of the Act n of Burned R dum on D s eased Thy d in M n	3 9	UTER Unrecog 1 ed Care noma	349
CASE I T The Techniqu of Pad tion Th rapy		La Roque G P P s n the P ly of W men	341
of Us phag 1 Ca cinoma	3 5	I f ctions n th Lo r Ge ital Tract of Female	
KELLY II A and WARD G E A Clinical Study of Radium Therapy in Care noma of the R ctum	22	Inf tad's ng Grls with a R po tof oo	
		Caree	

340

340

345

345

304

305

NEUTRITH K The Substit n of Irrad at n fo Operat in the T eatment of Ut ine Cancer KRAUL, L. Re it of Itradiation Tr atm t of Cancer i the Uterus METZ ER nd LEGUEU Dystocia Due t Rig d ty of th Cry 1st Rad um The apy fo Ca Vic ts H and Convit L Dy totia D e to Ccs in alSt nor s of the Ce a F flowing the Int a

d Moore C N A Mater

O 11 D

c veal Aprile to f Radium Morrow H nd Tatssig L R Fadium Th apy f V scular Næ 1 Arxt\s W H B Th U e f Rad m n the T m at f the Leukams sa d Hodgkin Di ea

MISCELLANEOUS

Clinical Entities-General Phys olog cal Conditions Mckevere D D cuss on on Labyrunth Deal 55 315

MARSHALL J \ Changes in Tooth Stru ture Re sulting f om Defic t D ets

THOLEN E F D tal Imp ction a d Their S

ROBERT C. W. P (fall n th Manag me t f Thy

2 d Dr ders

38

318 313

ent a) D gnos

Cases

Arthritis

ELY I W

COLVII A R

Bones

An 1

BAUMANY W

Ca cin ma

18 Su cers

REIV E and GUENZBURG L I net onal kidn y D gn : with R spe t to Bod ly Reaction ROTE! E The Valu of Blood Ce!! Sed mentation

The Second Great Type of Ch onic

Som D bilitie of the Kn e I int

The Cl n co Dia ostic S g ifi ance

CONWELL H E Compound Fract re of Long

GODRIN F D Th Facto of Dilution in Gast c

DIAMOND J S An Experim ntal Study of the Melt Lyon Te t with Comm nt n the Plysi

KAPPI M nd GERLACH F The Impo ta ce of

ol gy f the Gall Bladder and Sphincte Vat ri

I av riebral Inj ct ons f vo ocame in Diff

of th D covers of Occult Bl od n the Fæ es n Surgac I Di eases I the 5t mach E pe mily

LICKE B and REA M II Angurams

Surgical Pathology and D agnosis

HOLMES G M The Chincal Manif stations of

338 353 365

vn

z 6

357

361

363

33 t

337

Sure of the Head and Nack

BIBLIOGRAPHY

Surg ry of the Head and Neck		Genito-Urmary Surgery	
Head Eye Ear Nose Mouth Throat	37 37 373 373 374 374	Adre al K.d. y. d Uret r. Bladd. Urethra. a d Penis. Gent 10 g. ns. M. scell. cours. S. rg. ry. of the Bones. Joints. Muscles. Tendon.	384 85 385 38
N L	374		
Surgery of the Nervous System Baad Its Cornes C 1 Neres Sp 1 Cod d It C ng 1 nphe 1 N ns	375 3 6 376	Co. dit. 1 the Bones J. t. Missles T. ndons S. freet, I the B. e. J. nt. Mussles T. don I ractu es a. d. Di. locati Orthoped es. n. C. n. ral	387 387 38 198
Sympathet c N ps 4	36	Surgery of the Blood and Lymph Systems	
Surgery of the Chest Chest Wall i Br a t Tr cl 1 gr a 1 l'i ura Heart and I ricar i um (Esophagu nd Med ast um M seell e.u.	376 3 b 377 377 377	Blood Lessel Blood and Tra-siu I mith Les els and Cl nd Surg cal Techniq e	380 380 380
S rg v of the Abd men	3 /	Operat Srgry ad Tch q Potperati	349
Abd m rat W lia i P rate um Gast o Intest al Tra t La Gall Bi dder I n ea a d plee M scell neeu	377 377 3 9 3 %	Interpression of the second of	300 300
Gynecology		Physico-Chem cal Methods in S gery	
Uterus Id vala i Pen Ut ri C lt s. F ternal G nital M se il eou	380 38 38 38	I oe ig n i gy Rad m M « Il neou Miscellan ous	391 391
Obstetrica			
P gna cs and Ita C mpl cat: I bo ni It Compl cat: P erpen m a d Its C mpl at y abo M or llane s	38 38 383 384 384	General B et mal M cotic nd l'rot n Infec ton Du tiess Gl nds Ho p tal Med e l Idu t n nd Hist ry	39 39 39 302 30

AUTHORS

OF THE ORIGINAL CONTRIBUTIONS WHICH ARE ABSTRACTED IN THIS NUMBER

Abr ms S F 351 Ada F L 345 Aıkı W H B 365 Alki W H B 305 Alford L B 32 Ashh rst A P C 361 B dey T L 31 Ba c oft F W 336 Ba c off F W 336
Baumann W 331
Benedict W L 314
Bernad 5 H E 347
B sse e D H 20
B llt g R W 335
Bow r J O 39
B eit t in M L 315
Books R 222 Chamb 1 and W L
Chat n 1 and N
Christ p 1 and N
Cohen L 3 and S
Cr ssan E T 36
Cullen T 9 and S
Cullen T 9 and De Blaskov cs L 3 9 De Sait Bl e 348 Demel R 367 Demei R 367
D Snoo 345
D Snoo 345
Dessa e F 3 o
Deutsch I 3 7
D am d J S 337
D aggle F H 3 8
Dub o tch £ 345
Durand P 349

Elle brock N 350 Elle brock N 350
Fly L W 356
Fly L W 356
F ll F H 353
F eman S 334
F sher W H 309
F n C 363
F ankl O 351
F a er A R 3 4
F tedenwald H 3 5
G n! ch F 338
G ssner H B 36
C bon C L 36 ## 1986 - D H 397

1986 - D H Ir s E E 3 o

J ob H 333

J nes N W 33

Kah M 343

Kana l A B 357 kana l A B 357 k ppis M 338 keeg J J 313 k ller R 345 347 kells II A 335 k 1 on P D 3 5 kn gbt M S 3 4 kn v R 309 ko nch F 367 Kraul L 340 k et chmer H L 353

La R q e G P 341 Latte L 364 Leg u 345 Le I o 1e 348 Lews D 324 I 1 W 349 Lonot 350 I ubinski H 367 Luck B 363 M nuiloff W P 329 M rshall J A 3 8 Mrshall J A 3 8
Masn A 363
M Cllland J L 364
McC d J R 346
M k 1e D 315
M V gh J F 323
Melchor F 367
Mennet J 346
M trow 14c 148 Rob t C W 3 8 I the E 365 Ro 1er J W 340 R 1 g T 325 Ruef H 367

Ruh H O 161 S fford H B 350 Sam els S S 354 Sawkoff N M 330 Séd lli n P 340 Sch enbaue L 367 Sch ab E 348 Se lmann R 3 9 Schel A W 314 S chel A W 314
S ngton H 368
Sm th es F 3 8
Smitt n A G 354
Spa okukot k: S I
Stei h le H 320 314 Stein he H 330
Suerm ndt W F 338
Tau sg L R 364
Tholen E F 318
Thom sson A H 312
Thor k E 310
Trotte W 368
Tyler A F 320
Liter 200 19ter 4 r 320 Uter 340 V nN ys R G 327 V nve ts J 344 V g e H 345 V so P P 326 Vo der Heydt R 314 Vor n J 140 Walther H E 3 4 Watther II E 3 4 Ward G E 335 War S L 37 W bb C W 310 Whele S W I d C 359 360 368 Wh pple G H 371 What ker L R 36 W len ky A O 354 Wi ternitz A 322 Wi hnewski A W 354 Wo taschewsky J A 355 W lff J 3 2 Vat s A L 317 Z ntma) r W 3 0

EDITOR'S COMMENT

OTH the general urgeen and the man who e work is limited to one of the urgical pecialties are constantly faced with the necessity of keeping abreast of surgical progres in pecialized fields of medicine The general surgeon must be familiar with many phases of urgical practice. The success of the specialist depen is upon an accurate and intimate acquaint ance with one particular field of medicine based upon a comprehen ive knowledge of the «cience of medicine and surgers as a whole. For both of these men the abstracts of articl's appearing originally in the various American an I I'um pean gurnals devoted to the urgical pecualties alsstracts written by men particularly interested in these pecualties will erve as a mean of keeping them in touch with the important and es ential forward mo ements which are I eing developed in different fiel is of surgery in many parts of the tion.

In this menths i ue of the INTERNITIONAL Instruct of Surcies of peer a number of particularly interesting articles related to the spe-Under the title I hacoeresi Mills gives a careful account of Burraquer's method of entariet extraction as carried out in the Barcelona clinic (p 311) Cifford (p 312) cites a number of ol ervations of the favorable results of intracisternal injection of mercuri chi ari fe in the treatment of luctic optic atr if he Of particu lar interest in connection with the same problem is the report of Sichel and Fraser (p 314) on hemi anopia appearing as the ole clini al feature of a ca e il secondary lues. Of importance both to the onhthalmologit and the general surgeon the analysis I v Irons an I Brown (p 310) f a secon l large series of cases of iritis. Mckenzie's di cus ion of labyrinthine deafness (p 115) and Kerri son's paper on the indications for urgical inter ference in acute sur purations of the mi idle ear (p 315) are important contributions of pecial interest to the aural surgeon

The neurol geal surgeon will find several helpful and interesting all tracts in this month's issue Gor Ion II blines paper on the clinical main festations of cerel rail tumors (p. 321). Winter nitz report on the re ults of surgical treatment in eights seven ca e- of brain or cor'l tum r'il St. Stephan's Ho pital. Bu lipiest (p. 12) and Mcleigh ol servations of the results of experi

mental cru hing of the pinal cord (p. 323) are particularly worths of mention

Of pecial significance to the gynecologist and ch tetrician are Herzfell's description of the symptoms of tulal rupture in extra uterre pregnancy (p 343) an abstract of Neuwith's monograph on the sub titution of irradiation for operation in the treatment of uterine carcinoma (p 340) the report in Norm and Mikelberg on the management and results of treatment of vulvovaginitis in infants and young girls (p. 341). and Odermatt's di cu ion of intra abdominal hamorrhage arising fr m a ruptured corpus luteum (n 241) The n t infrequent observation of the last condition eleven times in 900 cases operated upon for appen licitis sugget the post bility that a certain percentage of so-called tubal ruptures are in reality confu ed with rupture of a

corpus luteum I number of other abstracts covering a wide range of all sects are worths of careful consideration. Deutsch's discu ion of inguinal hernia in children ba ed on the results of operation in 639 cases (1 32) the of servations of Moody Van Aus and Chamberlain on the position of the tomach liver and colon in 600 healthy persons (p 127) the description by Carman and Fine man of the \ ray finding in disea es of the colon (p 334) Jacob en sstu ly of volvulus of the carcum (1 232) lased on the record of twenty cales at the Viborg Hospital in Denmirk the analysis by Kelly and Ward of the results of treating carcinoma of the rectum with radium alone and with raisum combined with operative treat ment (p 335)—such stu fies represent conclusions frawn by al le men from an experience so exten ive that the rea her cannot help being impressed to thur value

Chit tophe report of clinical and expeniental re-carch with long garlfs fixed in alcohol (p. 358) ugge is many interesting possibilities to the orth pathe surgion. Annayd's report of fourteen cases of tuberculous tenosy novities of their re-tendon sheaths (p. 357). Cleveland six cus ion of surgi urative tenosy now its (p. 356) and Ashburst and Cross-in a singly as of the prognosis and study of the treatment of frictures of theight position with the company of the prognosis and study of the treatment of frictures of the graph spirity in the subject of primary and practical importance, to both the general surgeon and the industrial surgeon.

INTERNATIONAL ABSTRACT OF SURGERY

APRIL 1924

COLLECTIVE REVIEW

DYSMENORRHŒA

By DANIEL H. BESSESEN M.D. MINNEAPOUR MINNESOTA

ISMINORRHEA is a subjective symp tom of pathological menstruation multiplicity of the theories on the etiology and pathology of this very common condition leads one to question their validity and to real ize the crying need for a more thorough under standing of the subject

OCCURRENCE

The occurrence of dysmenorrhoga varies with the age sexual relations (101) parity pelvic pathology station in life type of occupation and physical development of the patient Accord ingly the number of cases which different gyne cologists see depends largely upon the class from which they draw their practice As Emil Novak says the frequency of dysmenorrhoxa is of little importance because it involves the frequency of pelvic pathology Next to sexual relations which seem to allay dysmenorrhora age is the mo t important single factor in its occurrence. The older the unmarried woman the more apt she is to have painful menstruation

Chisholm (18) reports that 58 8 per cent of girls and Hedge (cited by Novak 104) that 68 8 per cent of girls are free from pain but this symp tom is complained of by 77 per cent of women (Chisholm 18) 93 per cent of poor overworked factory vomen (Morton 100) and 15 per cent (Relly cited by Novak 104) 50 to 80 per cent (Block 8) 80 per cent (Meaker 97) 86 per cent (Gibbons 46) 60 per cent (Kermauner 79) 47 per cent (Behan s) or 40 per cent (I oyston 118) of college women

ETIOTOGA

The production of pain during menstruation has been variously attributed to certain anatom ical and mechanical factors of general or local nature chief among which are vascular ob structive nervous muscular ligamentous func tional inflammatory and nasal disturbances Special attention is given to membranous dvs menorrhoea and intermenstrual pain

I ascular disturbances That the pain is due to hyperæmia or local congestion is asserted by Novak (105) Smith (1 8) Scanzoni (cited by Novak 104) and Hulbert (cited by Kermauner 70) In the opinion of Pozzi (cited by Smith 1 8) this congestion may be caused by varicocele of the pampiniform plexus with resulting atrophy of the ovary According to Tobler (135) passive hyperæmia may be cau ed by unhygienic habits such as long standing sitting etc tight clothing and chronic constipation. Active hyperæmia may be caused by overevertion onani m erotic nre entations too frequent intercourse and path ological conditions such as chlorosis

Tobler states that the factors giving rise to normal menstruation are normally developed sexual organs with menstrual hyperamia while those giving rise to secondary and sometimes also to primary dy smenorrhoa are normally developed exual organs with active or pa sive hyperæmia and menstrual congestion Conditions which cause primary dysmenorrhora are incomplete de velopment of the uterus with normal or path ological men trual conge tion with or without venous sta 15

Various explanations have been given for the method by which vascular disturbances produce pain Gibbons (46) concludes that the pain is due to the tearing of the subperstoneal nerves by the subperitoneal vascular filling. The swelling and convestion of the ovary in the presence of ova rian inflammation will cause pain from distention Theilhaber (cited by Tobler 135) Menge (cited by Tobler 135) and Schultz (123) state that the uterine contractions are in proportion to the filling of the blood vessels. The uterus must contract to force the blood out of its vessels into those of the small of the back to restrict the bleed ing to the uterine cavity and to force the blood from the uterus into the vagina. When the muscle is underdeveloped the blood collects in larger quantities. In aplasia of the uterus and ovary there is no or only scant menstrual molimina When the uterus is of the puberty type the menstrual distress is extreme. When the small uterus is stretched by the blood pain is the result the blood not being able to pass through the small opening kapsel pannungschmerz is due to the stretching of the capsule by the increa ed blood Another theory attributes the pain to the contraction of insufficiently developed uterine muscle upon the filled veins (Kermauner ,9)

Obstructive disturbances The second etiological factor in dysmenorrhoea is obstruction. Many investigators including Sims (cited by Ker mauner 70) Gusseron (cited by Kermauner 79) Mackintosh (cited by Schultz 123) Simpson (cited by Schultz 123) Smith (128) Kennedy (78) and Noval (10) have established that pain may occur as the result of the contraction of the uterus upon the retained menstrual debris or regurgitation of the blood through the tubes (Weckman 139) Ol struction to the flow may be due to clots (Novak 10, Iolano 107) amputation or faulty repair of the cervit malig nancy or other tumor formation of the cervix or uterus inflammation (kennedy 78) cervical stenosis or infantile uterus (Polano 107)

Rerous disturbance: Many writers stress the neuropathic aspect of the disease. This they place either alone or in combination with other factors as a very important characteristic of women suffering from dysmenorrhoa. I natients show a marked difference in their ability to endure mild or severe pain. Stolper (13). Garretson (44) Eppinger (cited by Rothrock 116) explain the pain on the basis of vagus overstimulation or vagotiona which they asset may be caused by compensator exhaustion of the pituatry but there seems only oversettion of the pituatry but there seems

to be little evidence to substantiate these state. ments However a neuralgic form a nervous irritability a neuropathic tendency and a fone tional disturbance of the nervous system have been observed by I othrock (116) Theilhaber (cated by Tobler 135) Menge (cated by Tobler 135) Kroenig (cated by Tobler 135) Herman (62) Scanzoni (cited by Kermauner 70) Hulbert (cited by kermauner 70) Tobler (135) Schultz (123) and Smith (128) According to Scar on (cited by Kermauner 79) Herman (60) and Roy ton (118) these are caused by or associated with animia con triction of the cervix occupation poor nourishment or mental depression That the condition is a stigma of hysteria is the conjecture of Vedeler (cited by Schultz 121) Kolischer (82) and Polano (107) These observations are more or less a matter of council ince they have little anatomical pathological or

the the have here and

physiological foundation Muscula distu bances Polano (107) and Gusserow (cited by Kermauner 70) refer to infantile uterus as of importance in producin. pain at menstruation. Hypoplasia of the uterus with inclasticity of the underdeveloped muscle apparently causes painful contractions Gibbons (46) and Herman (60) state that there I only one type of dysmenorrhora the spasmodic This they attribute to contractions of the uterus of clonic or tonic type Theilhaber (cited by Tobler 11) believe that spastic contractions of the circular fibers of the internal os are responsible for dysmenorrhora in women with a predisposition to abnormal nervous irritability Menge (cited by Tobler 132) states that the uterus is normally in rhythmic contraction and that the contractions become painful in the presence of an easily stritated nervous system pathologic changes in the genital organs or functional di turbances of the nervous vstem. In young women who have suffered from infections of the genital tract or acute infectious diseases the cervix may show a contracted hard scarred tissue formation which suggests gri tle. This contraction and stenosis of the canal causes the congestion of menstruation to swell the mucosa until it causes contractions of the entire uterine muscle with resulting dysmenorrhoea. In like manner con strictions of the internal os external os or neck and displacements of the uterus may cause painful contractions of the uterine muscle as noted by Kalledev (26)

Functional disturbances Dysmenorrhora may have a functional origin In Novak's opinion (105) it may be a menstrual colic possibly a menstrual crisis Menstruation is dependent

upon the internal secretions especially the compus literium and variations in these hormose produce variations in the symptoms (Rothrock 116). Franched (35) advances the theory that deficiency of triptic ferment in the secretions of the uterus allows the blood to clot and tapain is caused by the effort to expel the clots. Any of these variations would probably be dependent upon disturbances of endocrine meta balson.

Ligamentous disturbances According to Gib bons (46) Lennander seeks the cause of dysmen orrhæa in the loose pelvic tissues especially the

ligaments of the uterus

Inflammations The type known as congestive to symenorthea or dysmenorthea secondary to hyperamia has been attributed to inflammation. If this were true pain radiating from the oxary during menstruation would be due to inflammation of the ovaries tubes peritoneum or adhesions Pozzi (128) Smith (1 8) and Polano (107) beleve that pain centered in the uterus would be produced by uterine inflammation.

Vasal dysmenorthaa Because in the lower animals smell i prominent in sexual excitement the belief is prevalent that the genitals are re lated to the nose. In the opinion of Fliess (cited by Kermauner 79) the connection between the nerves of the nose and those of the genitals is demonstrated by the results of the nasal treat ment of dysmenorrhoza Kolischer (81) does not associate the so-called genital spots with dys menorrhoea and many authors in recent work question this point in spite of the numerous ob servations reported They claim that the appli cation of cocame to the nasal mucosa may have a general effect and that when cauterization gives relief it does this probably by relieving some underlying condition such as hy teria

Membraness dysmenortha a The mechanism of membranous dysmenorthea is of much the same origin as is that of other types. Hitsch mans and Adler (68 69, 9) who have made the latest contribution to this subject believe that the condition is an eta-geration of the normal process which allow is the mucosa to hypertrophy the membrane being eparated in one ca e by the contractions of the uterane mu culature and in another by destruction of the spongs layer of the mucosa with stripping of the muco a by the resulting hemorrhage. This theory appears to be reliable and reflues the views of Vscheim (t) and Polano (top) with regard to the inflammatory origin of the disorder.

Intermenstrual pain In the opinion of Rosner Fehling I almer and Addinsell (cited by Novak 104) Intermenstrual pain occurs usually at the time of ovulation and is due to an inflammatory thickening of the ovary associated with chronic inflammation of the tubes uterus and surround ing issues or chronic pelvic congestion. Drennan (cited by Novak 104) attributes the pain to the escape of the non impregnated ovum through the cervical canal but this seems questionable be cause of the microscopic size of the ovum.

It is obvious therefore that the etiology of dysmenorthea or the mechanism of the production of pain during menstruation is as varied as the pathology. At any rate the etiological factors to attract most attention are the condition of the blood supply to the parts the patency of the uterine canal the patients functional and neural soundness the condition of the uterine ligaments and musculature and the presence or absence of inflammation or membrane indicating functional derangement. The close interrelation of these etiological factors makes it probable that several of them are involved in any one case

PATHOLOGY

In reviewing the various pathological conditions to which dysmenorrhea is attributed it appears that pain during menstruation indicates a definite pathological change either local or general. It is merely a symptom and therefore should stimulate a careful search for the cause

Endocrine Pathology

First consideration should be given to the endocane metabolism upon which menstrusion is dependent and to the variations which can easily produce menstrual molimina. The endocaness are so intimately related that it is difficult to separate them even in con idering their various functions. A knowledge of the function of the endocane organs and of their effect upon the organism especially the pelvic organs leads to an understanding of their direct and indirect action upon menstruation.

Orary Much that has been written regarding the ovary relates to the corpus luteum but it is only in recent studies that the activity of the corpus luteum has been differentiated from that of the other structures in the ovary in the following discussion this distinction is taken into consideration.

Anatomy There are two nerve supplies in the ovary the splanching and the sympathetic They enter at the hilus and course around the ovary In general they stand in relation to the ves.eis passing into the foliacular apparatus and then either passing out again or terminating at that

point. There are definite end-organs on these terminations to the membrant proprise and times ganglion cells are found indicating the activity of the sympathetic system in the ovary. These large ganglia have main neurofibrille and dendaties which connect with the ovary (Aschner

3 Wallart 138 Brill 11)

The function of the ovars may be con idered in its relation to physiological process and to other organs. The physiological processes with which it is most intimate are menstruction the menopause, the changes in the body following cophorectomy prepaner, abortion cognilation of the menstrul blood vs omnotor changes and dissumerables.

Eunctional relation to physiological processes It is generally concerded that under normal conditions the usary is the influence controlling mentativition. With the notice in lace change on this function, but the menarche and menuses make the onset and completion of the cativity of the ovary. Birst (by) notes that delived mentation may be hastened by extract of the whole ovary. When a patient continues so meastratest after removal of the ovaries so meastratest after removal of the ovaries of the continues to the continues of an ovary has been left in the abdomen (toward, toward, towa

Removal of the ovaries or cessation of their activity induces the menopause. The symptoms which are frequently complained of at this time are of endocrine origin. Novak (104) states that in the surgical menopau e the severity of the symptoms has no relation to the patient's age but other writers report that the younger the patient the more evere the reaction. The symptoms are due mainly to persistence of the action of the thyroid which in the absence of the supposed action of the ovary stimulates the pituitary and adrenals and thus produces the vasomotor changes typical of this period. Relief may be obtained by the use of ovarian extract (Hirst 67 Morley 99 Hirsch 66) Mental dis turbances are apt to occur especially with the urgical menopause (Cordon 40)

Ablation of the ovaries causes diminution in the quantity of phosphites exerciel in the impeatement of a diminished intake of crypen and output of carbon diovide and a gain in weight. As shown by fills (64) experiments all of these thousemay be remedied in part by the injection of ovarian extract.

Frank (30) believes there is hyperactivity of the ovary during pregnancy After the sixth week of pregnincy the oxanes may be removed without causing abortion. Ovarian deficiency to fore the sixth week has been found to cause abortion the remedy is autotransplantation of the ovaries or the all ministration of oxarian extract. In cases in which transplantation has been done there have leen a few takes and in two instances pregnancy occurred after the operation. Heterologous transplantation has not been successful. Transplantation is not considered dependable but the ri. k of the operation is not increased by tucking the oxary into a pocket in the muscle and occasionally this releves the artificial menopause or prevents abortion before the sixth week of

Marin 9. Frank 39. Schielde sexperiments show that in the ovary more than in the uteries in the uterial more than in the myometrium and in the myometrium more than in myomatous structures there is a substance which reduces the coughlibility of the blood. Blood mixed with a few drops of menstrual serium will remain uncox, ulated in

pregnancy (Rell 7 Noval, 101 Chalfant 16

a glass for a week

The same substance will cause a vasodulatation of perit heral vessels. The conclusions are that the oviries are responsible for a great deal of the bleeding from the uterus but there is such a complication of factors that much tudy is required to explun certain cases stil factorily.

Dismenorrhest has been attributed abo to hypofunction of the ovary an 1 in some cases the administration of ovarian secretion or whole ovary gives good results (Block 7 Kalledey 6 Debby 6).

I unctional relation to other organs. The organs with which the ovars has interaction are the gential preasts and adrenal pituitary pincal thymu and thyroid gland the organs with which the study of mensitual

proces es as chiefly concerned

Oophorectomy before puberts has not been done in the human femals, but the results in animal indicate that after thin operation the gential tract remains undexloped. Hypotunction in the adult produces atrophs of the external gentials. It is found that injections of a rain extract shighly check the atriphy of the gentials following objohrectomy. As reported by variou authors injections of ovarian extract exert a definite influence on the genital as shown by the results in the treatment of krauro is vulva. The vesles of the genitals become dilated and the growth of the genital organs is stimulated. Apparently this substance is present all o and in

more potent form in the placenta. It may be extracted by water and heat or by alcohol and ether Experiments on animals demonstrate the hyperæmia and growth stimulus produced by these extracts These observations are based on the studies of Novak (104) Graves (5) Herr mann (63) Kalledey (76) Schickele (1 1) and Fellner (cited by Aschner) The ovary ever cises a developing influence upon the tube uterus and mammæ Halban a erts that when the ovary is present any of these organs will grow and function after transplantation but that in the absence of the ovary they will atrophy If the ovary is removed before puberty the uter us and tubes do not develop. After maturity cophorectomy does not influence the breasts

Ovarian function apparently everts a cyclic stimulation on the breasts. In the opinion of Hermann (63) Aschner (2) Frank (39) and Novak (104) this accounts for the changes occurring, in the brea t during pregnancy.

Variable (136) states that pregnancy produces restance and coopborectomy diminution of restance to injections of adrenalin Perpeated injections cause macro copic diminution in the volume of the ovary. Gradual adrenalin poisoning causes microscopic changes in the ovary whereby the glandular element is replaced by connective tissue. The adrenals seem to act inversely to the ovary. According to McAuliff (93) hypertrophy of the one leads to atrophy of the other.

Removal of the ovaries may be followed by acromegaly or overgrowth of the pituitary as noted by Goldstein (48) Graves (52) Cohn (20) and Roessle (114) This shows that the pituitary is antagonistic in action to the ovary the one neutralizing the other. The pituitary appears to act inversely to the ovary McAuliff (95) states that hypertrophy of the one lead to atrophy of the other Frank (30) Garret on (44) Schickele (121) Graves (52) and Kalledey (76) believe that hypofunction of the ovary may be econdary to hypophyseal di turbances that ovarian extract may be given for hyper pituitari.m and that the effects of ovarian ex tracts can be counteracted by pituitrin. In a series of forty one ca e in which the symptoms were ascribed to ovarian hyperfunction the bleeding was checked by the u e of pituitrin \s tuttrin has been found of value to check uterine hæmorrhage in obstetrical cases at effect in these forty one cases may have been due to its action on the uterine mu cle

The pineal gland atrophies at the time of puberty and is reported by McAuliff (95) as acting

inversely to the ovary hyperactivity of the one leading to atrophy of the other. These state ments apply also to the thymus

Hyperthy rodism seems responsive to treat ment with oratina extract since ovarian feeding decreases the size of the thyroid (Garretson 44 von Graff 51) According to McAulift (05) the thyroid is antagonistic to the ovary and hypertrophy of the one leads to corresponding changes in the other but the evidence does not

completely corroborate thi conclusion

Hyperfunction Hyperfunction of the oxary is usually not noticed clinically before puberts. It leads to menorrhagia and metrorrhagia in the adult and to premature sexual development in children Overfunction of the oxaries may cause osteomalacia as observed by Cohn (20) Noxak (104) and Frank (39) Eights seven per cent of cases of osteomalacia during pregnance, and 93 per cent of cases in which the condition occurs during the puerperium can be cured by removal of the oxaries. In Frank s (40) experience adregalatin injections cure o per cent Frank classifies ovarian hyperfunction clinically as follows.

Congenital type This is indicated by pre cocious meastruation and precocious puberty and may be associated with ovarian pineal or adrenal cortex tumor

2 Puberty type Hyperfunction in early puberty causes short extremities and a long trunk and severe menorrhagia or metrorrhagia

3 Adult type The primary factor is evidently thyroid deficiency The condition must be differ entiated from pelvic inflammatory general and syphilitic conditions

4 Preclimacteric type Thi presents the same characteristics as the adult type 5 Secondary type Transitory menorrhagia

and metrorrhagia are associated with early stages of Grave's disease and may occur after thy roudectomy. This hyperactivity of the ovary is followed by aplasia.

Hypofunction In adults hypofunction of the

out) leads to unenorthear in children it produces infantism. The max be amenorthear with obesity genetal aplassa and status it implies teus Godbe (47) claims and status it implies teus Godbe (47) claims of the ovaries the onset of menstruation may be normal and the flow more court normally for four or five years but is them discentined with possible imperfect development of the see char acteristics. Frank. (39) class fine hypothenetics clinically as

r The congenital type This is associated with deficiencies in other organs

2 The primary type This is a sociated with local atrophy nervous symptoms decreased sugar tolerance increased adrenalin glycosuria a relative neutrophilic leucopænia and lymphocytosis a decrease in the eosinophiles increased coagulation time increased boold content and a change in the reaction to drugs (Frank 30 and Aschner 3) In five of twenty five cases of hypofunction the lipoids were normal or de crea ed. They were determined by mixing a c cm of blood or serum with to c cm of 95 per cent alcohol and adding ditilled water to 5 c cm of the filtrate drop by drop till clouding occurred As reported by Zoeppritz (143) the number of drops necessary to produce clouding determines the concentration of the linoids

3 The secondary type This is associated with Graves di ease hypophyseal di turbances Addi son's disease and persistent thymus

Ovarian insufficiency may occur at the minopsuse or may be due to surgical removal of the ovaries. The menopauxal symptoms are given by Bell (r) and Aschner (3) as psychic (maturitation in irritability or instability) visomotor (flushings) sweating chills cardiac and intestinal di tradigation of the control of the control of the control of calcium salts.

Fettracts Lettracts of the over are used by various practitioners in the treatment of late development of puberty infantilism obesity and amenorrheas and itregular menstruation and menorrhages of youth. These extracts are supplied in powders compressed tablets and ampoules for intravenous injection. Intravenous injection is the best method the injections should be given in cries of twicke twenty four or thirty set one being given druly for two to four weeks and then at intervals of from two to five days for two or more months. Usually, on ideathed time edap es before the results are noted (Hirst 67).

Corpus lute.im The lutein cell are developed from the granulosa cells of the follicle. The paralutein cells are duri of from the thea in terna. According to Frank (18 39) the development of the transitory body, the torpus luteum takes place in a four stage cycle.

t I roliferation. The theca externa is vascular the theca interna has lipoid-containing cells, and the granulosa epithelium becomes stratified.

2 Vascularization. The theca externa and in terna are essentially unchanged. The granulo a cell are di tended with lipoid and lutein contents.

3 Ripener's The theor interna i barely dis tingui hable from the externa. The granulosa has become what is known as lutein cells which are arranged as the cortex of the adrenal and are roofed off by the connective tissue

4 Regression The clot fills with connective tissue the lutein cells become small and vacuolated and the vessel become narrow kreis has compared the arrangement of the capillaires of the corpus luteum to those of the liver

Marcotty (qr) and Fraenkel (35) find that the corpus luteum forms midway between two period while Herrmann (63) observes that the bur ting of the follicle allow the corpus luteum to attain its maximum growth eight days later When menstruation begins the corpus luteum begins to retrogress and when menstruation ceases the corpus luteum re forms. Persistence of the corpu luteum prevents the occurrence of menstruction Frank (19) and Herrmann (61) found that it inhibits ovulation. The corpus luteum like the uterine mucosa is cyclic and the latter depends upon the former Loeb (cited by Herrmann 63) after extirpating the corpora lutea in guinea pigs within the first seven days following ovulation found that the next ovulation occurred earlier whether pregnancy occurred or Three weeks after ovulation when the uterus 1 smallest and the mucosa thinnest the corpus luteum pureum is beginning to cicatrize When ripening of one follicle reaches a certain stage the development of others is inhibited until the cycle is complete. Inactivity of the corpus luteum is sail to produce a new ovum Artificial impregnation apparently takes best eighteen days after the on ct of menstruation in the twenty eight day cycle and on the eleventh day in the twenty-one day cycle the ovum re quiring eight or nine days to travel the tube These ob ervations have been made by McDon

ald (06) Miller (08) an l Frank (39) Of interest in the connection is the relation of oxulation to menstruation. In an effort to find out whether or not ovulation occurs with men struction Leopold and Mironoff (85) studied forty ty o of a po sible 215 pairs of o aries. A careful hi tory especially of men truation wa taken and the ovaries vere thoroughly sectioned and carefully examined. It was do covered that thirty of the nomen had ovulated at menstrua tion and twelve had ovulated at times other than that of menstruation Riebold (111) found that usually menstruation (associated with ovu lation but that these processes may take place independently of the uterine hamorrhage. Frank (30) states that the pre-cestrus may be coincident with maturation of the follicle but does not accept this as proved (Estrus may occur with or without ovulation Frankl (41) says that the

death of the ovum is marked by the rupture or disappearance of the corpus luteum. When the old secretion disappears the menstrual flow begins again Absence of the corpus luteum causes

menstruation (Geist 45 Frankl 41)

Chemistry In the function of menstruation the basic factor is probably the chemistry of the corpus luteum According to Miller (98) the corpus luteum of pregnancy differs from the cor nus luteum of menstruation in that it contains no fat Marcotty (91) states that with active cell formation and mitoses there is possible degeneration of the organ and that fat is already present in the corpus luteum early in the premenstrual stage Fat infiltration takes place first in the theca lutein cell beginning in the periphery and then occurs in the granulosa cells. In the later stages the theca lutein cells are poor in fat The fat consists of neutral fats cholesterin com pounds cholesterm and phosphates Cholester inæmia tend more toward menstruation than does lecuthinæmia. Menstruation is not only a cellular but also a chemical abortion

The corpus luteum contains trypsin lipase erepsin and amylace. In experiments by Halban and Frankl (57) Frank (40) and Aschner (2) injections of trypsin produced changes in the

uterus similar to those of cestrus

Aschner (2) intimated that the presence of trypsin in the ovary is an important factor responsible for the non coagulating character of the menstrual blood Schickele found a substance in the internal genitalia which redu ed the co agulability of the blood and caused dilatation of the peripheral vessel

The experiments of Halban and Frankl (57) demonstrated that trypsin prevents or delays the coagulation of the blood Following menstruation no trypsin is present in the uterus. At the time of menstruation the blood of the body remains unaltered as regards coagulation but the uterine flow is almost uncoagulable Cristae and Denk (21) state that if the blood passes through the uterine cavity without passing through the uter

me mucosa it will coagulate

Frank (40) and Halban and Frank! (57) associate the presence of trypsin allo with the formation of the decidualike cell of the premenstrual stage. The injection of tryp in into the uterus produces changes in the uterine mu cosa similar to those of cestrus. It is thought that these cells are formed by the trypsin fer ment in the uterine glands preceding menstrua tion

The remaining studies of the chemistry of the corpus luteum suggest a two fold action of this

body Guggisberg (54) states that the corpus luteum has a variable action at one time stim ulating and at another checking the flow In a careful study of a small series of cases Novak (102) found that patients with a surplus of paralutein cells gave a history of irregular bleeding This led him to the conclusion that the secretion from these cell differs from that of the lutein cells the one probably controlling menstru ation and the other the implantation of the ovum Experimental work ba ed on this theory which was conducted in the laboratory and then elab orated in fourteen clinical cases showed that the corrus luteum contains two substances luteolipoid and lipamin The luteolipoid checks hæmorrhage and diminishes the coagulation time while the lipamin a lipoprotein prolongs the coagulation time and increases hamorrhage. When the follicle runtures the corpus luteum forms. The early corpus luteum which contains an excess of lipamin causes the blood flow of the period while the late corpus luteum, which contains an excess of luteolipoid checks the flow Injections of linamin once to three times daily over a period of from three to eight days causes a profuse flow at the next period and this can be checked by one or two injections of luteolipoid (Seitz Wintz

and Fingerhut 126)

If the data in the preceding four paragraphs are correct-and they seem to be confirmed by experimental and clinical evidence—the con clusion is permissible that following ovulation and the beginning of the formation of the cornus luteum the ferment trypsin is formed in the uterine gland perhaps by stimulation of the paralutein cells This ferment in turn stimulates the formation of decidus like cells in the uterine mucosa and dilatation of the peripheral vessels of the part The gradual increase in the trypsin lead to increased permeability of the vessels therefore when the paralutem cells have reached the culmination of their development the bleed ing of menstruation begins The mechanism of this flow is at first a diapedesis governed by the trypsin in the glands of the uterus which prevents coagulation If the blood collects in such large quantities as to rupture some of the ves els hæmorrhage may take place also through rhexis When this occurs the blood does not come into contact with the trypsin in the glands and clotting therefore occurs With the onset of menstruation the lutein cells become prominent and the paralutein cells begin to retrobress. The secretion from the lutern cells checks the hæmor rhage and stops the flow Following menstruation there is no tryp in in the uterine glands

Functional relation to phisological processes. The ancestrus of first stage of the ostrus cycle i characterized by a single layer of epithelium and a delicate pale connective tissue stroma. During the pro-oestrum the uterus is larger and congested the epithelium hypertrophies the blood vessels of the connective tissue are engorged and the glands become large and fortiou. The premenstrual period is characterized by extreme seeling of the glands with secretion and the formation of decided layers. The consistency of the control of the uterine will. It is generally accepted that this function is governed by the corrust stutum.

It has been demonstrated by experimenta tion that the growth of the decidua like cells is dependent upon the presence of a foreign body in the uterus only if a corpus luteum is present not otherwise I oeb (cited by Frank 36) found amitotic nuclear probleration on the fifteenth day after the formation of the corpus luteum Very extensive experimentation shows that stimulation of the uterus in the presence of the corpu luteum produces decidualike cells the maternal portion of the placenta. After removal of the overy or destruction of the corpus luteum the decidua like formations cease. The corpus luteum control the attachment of the ovum to the uterus through decidua formation (36) Herrmann (63) and Leighton (84) observe that the corpus luteum stimulates the decidua formation and that this in turn acts upon the corpus luteum continuing its activity until the termination of pregnancy

The corpus futeum is a necessary element in early pregnancy. Its ab ence or removal or destruction results in abortion certainly before the sixth week and sometimes at later periods of gestation (Frank 39 Novak 104 Yuller 08 DeLee 26 Smith 129 Frienkel 35 Burnam 14 Mackenzie 89 and VLCDonald 95)

Functional relation to other organs to Frank (36 37) and Bucura (13) the breasts show changes of a cyclic nature which are dependent upon the corpus luteum of intuition has fettility and menstruation.

Finlargement of the uterus apparently one of

the processes of the corpus luteum
The corpus luteum seemingly causes hyperæmia

of the genital and cures kraurosis vulvæ. Hypofunction of the ovar may be denoted by amenorrhera oligorithera the menopau e or the symptoms which follow oophorectomy dis menorrhera conge tive disturbances nervous disturbances infantili m sterility the vomiting

of pregnancy repeated abortions or kraurosis and prunits vulvæ (Burnam 14 Leichton 84 Dannreuther 25 Graves 52 Frank 39 Noval

Extracts Extracts of the corpus luteum should be obtained from pregnant animals otherwise they are useless (Dannreuther 25 Frank and Rosenblood 40) According to Frank [36] the administration of the extract does not produce sufficient change to indicate that its use will cause pregnance, hyperplassio of the breasts. It may be used in all cases of hypofunction of the corpus luteum and in some cases will be beneficial. In the past its use has been found without effect in cases in which it was clearly indicated. It is possible that in these cases the extract was inferior quality or that the amount administer was not sufficient. Intravenous injections are of much more value than oral administration the

latter may have very little effect Interstitial pland Various conclusions have been drawn with regard to the interstitial gland Loeb states that there is no such organ in the guinea pig and others have been unable to find it in the human female Studies made by Frank (39) Graves (52) Cohn (20) Schochet (122) Halban (56) Herrmann (63) and Rouville (117) seem to indicate that it is not marked in the hu man female and is most abundant during preg nancy after the third month Some investigator have been able to find it in the ovaries of all animals. Its secretion is reported as supporting that of the cornus luteum and it is considered by several investigators as important in deter mining and maintaining sexual development

and Bocura (13) believes it has no function at all The fillicular structure, the only portion of the ovan which functions before puberty has been reputed to govern the growth of the internal and external gentain. Fraenkel (cited by Schickele 121) concluded from his studies that the follicel bursts on the mutetenth day after the beginning of menstruation. If the follicular system fail menstruation cases (Schickele 121)

Frank (39) regard its function as questionable

Thyroid glond The relation of the thyroid rophysiological proce se is that of control The index of the activity of the thyroid singless normally dumm puberty menstruation pregnancy lactation caration several everes and occasionally at the menopause (Novak 103 104 Sehrt 135 Cohn 20 von Graff 5; Frank 30 and Culbertson 23).

Outhorectomy produces an atrophic thyroid says Frank (39) though Culbert on observes that in some cases when the ovary ceases to function the thyroid may continue to act for a time thus stimulating the adrenals and pituitary which cause vasconstriction with hypertension and hot flashes Ordinarily however the thyroid becomes inactive with the cessation of the activity of the oarts.

As there is a relation between the thyroid and the ovary the ovary may be involved in any case of thyroid enlargement. The thyroid is decreased in size by ovarian feeding and 1 most active during pregnancy (Frank 39 von Graff

51 and Aschner 3)

In experiments performed by Sweet and Fllss (134) ligation and section of the pancreatic ducts caused enlargement of the thy road with an increase in the amount of colloid and of iodine in the colloid and atrophy of the spleen

That hyperfunction of the thyroid leads to Grave's disease is generally recognized Pelvic disease as well as disease in other parts of the body may react on the thyroid. The effects of hyperthyroidism upon the blood urine and menstruation are most striking. The blood shows a relative polymorphonuclear leucopænia and a relative lymphocytosi the leucocytes average 45 to 68 per cent instead of 75 per cent and the lymphocytes 50 per cent instead of 25 per cent The total number of white cells is 5 000 to 6 000 When the lymphocytes are not high there is an eosinophilia. The di tingui hing characteri tic of hyperthyroidism recorded by Sehrt (123) is an increase in the coagulation time. In the opinion of Salaman (1 o) the thyron i or some to sue re sponsible to the thy rold for its stimulation causes earlier congulability of the non coagulable men strual blood and thus shuts off the hamorrhage earlier The urine show an increased gly cosuria with a dimini hed tendency toward albuminuria The clinical observations of such men as Frank (39) and Kocher (cited by Sehrt 1 5) hew that the menstrual function a greatly disturbed by Basedow s di east thi condition usually leading to amenorther and obsorthou Godbes (47) Bourne (q) and Krusen (83) assert that when hyperthyrorlism occurs earlier in life the on et of the menses 1 late and the menopau e occurs early Pain during menstruation may be due to hypersecretism of the thyroid (rave's disease may lead to ovarian insufficiency

Hypofunction of the thyroid has an equally far reaching miluence upon the riganism leading to cretinism and my to lema with adoposity. The blood shows the same variations a thoe found in hypersection except that the coagulation time is increased Schrif (125) and Frink (29) almost constantly find menorrhagis in this con

dition The uterus may be infantile abortion may occur frequently and sexual function may be decreased As shown by studies of Dalchi (24) Garretson (44) Young (142) Bell (6) and Sehrt (125) dysmenorrhota also may be due to hypofunction of the thyroid

The data cited seem to demonstrate that the effect of the thyroid upon the coagulation of the blood during menstruation: the result of the influence of the ovary upon the coagulation second ary to variations produced in ovarian function

by the thyroid

Idrenals Novak's (104) analysis demonstrates that the medullary portion of the adrenals is derived from the nervous system and belongs to the chromaff n system. The cortex is derived from the same anlage as the gonads.

Functional relation to physiological processes The adrenals are essential to life. The chromaffin bodies and adrenal medulla stimulate metabolism In the opinion of Frank (39) and Cohn (20) the adrenal causes lipiodemia and progenitation

Functional relation to other organs disturbances are apparently associated with ovarian disturbances. The observations of Gar retson (44) Varaldo (136) McAuliff (05) Novak (103) and Stolper (131) demonstrate that dvs menorrhoa may be due to vagotoma secondary to adrenal exhaustion. Pregnancy produces ret tance and oophorectomy decreases resistance to injections of adrenalin Repeated injections cause macroscopic changes in the ovary whereby the glandular element 1 replaced by connective ti sue Mc tuliff states that the suprarenal acts inversely to the ovary and that hypertrophy of the one leads to atrophy of the other Hyper trophy of the adrenal is observed during preg nancs and following oophorectomy In the men of ause there is increased adrenalin glycosuma Hyperovarianism raises the sugar tolerance Since adrenal glycosuria increases after cophorectomy and decreases in hyperactivity of the ovarie it is logical to conclude that the ovar acts as a check on the adrenal sy tem

Hyperfunction Hyperfunction of the adrenal attended by sterility and maculanity for which there is no treatment. The effects on the reproductive assertion of supraeral tumors carcinoma sarcoma and hypernephronical as carcinoma sarcoma and hypernephronical to divided into two classes. Obesity occurs in both care Apart from the development of the humber of the humber of the humber of the care of the control of the humber of the control of the humber of the control of the humber of the humb

tumor Greechio s patient (cited by Novak 103) contracted gonorrhea twice in the rôle of a male Frank (38) noted that cortical hyperfunction in adults results in hypertrichous pigmentation hyportenia cholesterinamia in infants in pre-ocious puberty in ulero in feminine pseudo-hormaphrodiu in.

Hypofunction Frank (10) and Culbertson (22) hive top-retei retarted sexual developed (22) hive top-retei retarted sexual developed when the top-retein which there was a lack of development of hair and genitals. Medultry hypothemicion levels to Uddson as there is Adreain sufficiency also produces sterility. In the four recorded cases of pregnancy with Addisons disea e no abnormalities occurred. Marked afternal applica is found also in stitus hymphical Adrealectomy raises the blood pressure the proposal production of the productio

Hypothysis: Functional relation of hypothysis to physiological processes. The antendre libe of the hypothysis app trently controls body growth. In influence which returds growth a nufleence which returds growth as another. According to I opicel is, 1633 another. According to I opicel is, 1633 another. According to I opicel is, 1633 to lobe of the hypothysis reduces the blood pressure while that from the posterior lobe merca est the lood pressure. The two secretions counteract each other. The influence of the nervous portion of the hypothy is argivited the uterine muscle.

Functional relation to other organs turbances of the hypophysis are very often a soci ated vith disturbances of the ovary The organs of internal secretion are closely associated with menstrual and other pelvic disturbances. The use of the extract of the posterior lobe of the hy pophysis in conditions of uterine hamorrhages and inflammations of the tubes and ovaries shich are otherwise intractable is very sati factory as has been note i by Jayle (74) and Godbey (47) Novak (104) has reported pituitary hypertrophy with occasional physiol greal symptoms occurring in pregnancy. Ovarian injections cau e a fall in the pressure in the opinion of Graves (52) this can be counteracted by pituitrin Frank (30) has claimed that hypofunction of the ovary may be econdary to pituitary di turi ances

Hypofunction The studies of such men as howah (rea) and I rochilch demonstrate that pituitaty insufficiency my cau e infinitism of the genital organs associated with obesty mental dullness sexual hypophasia and ammorrhar The administration of pituitin with other en docrantes gives relief. This condition is due probably to the anterior lobe though the posterior lobe is held responsible for the increased suptherance Cushing (cited by Roessle 11) point out that sexual hypotunction may result from the removal of the hypophysis and halleley (a) states that menorrhagia occurs from hyperiane tion of the ovary developing from hypotunes of the hypophysis. Lack of development of the brests infantile uterus hysteria and even or vulsions may result. Further support is given to these reports to Roessle (12) and Godbes (12)

Extracts Txtracts of the pituitars have their most marked effect upon the female genitals Two-thirds of women with infantilism or sexual hypopla ia of the uteru ovaries etc show signs of regular menstruation following the admin istration of a cem of pituitary extract daily Holstaetter (71) regards the explanation of the action of the medication as still hypothetical I romme (41) mentions its u e in cases of amenor thera not centered in the uterus and suggests that its action may be due to regular contraction of the uterus stimulating regular bleeding Novak (103 104) finds that the posterior lobe gives an extract which exercises a powerful influence over the uterine muscle stops postpartum ham orthage and acts as a diuretic and an entero-Linetic

Pane car The panerers is essential to life Panereate hyperfunction is unknown. Panereate hypofunction causes diabetes I ancreatedomy cause glycosum polyume emacution and death Biedl (cited by I rank 30 Culbertson 22) tates that the lymph through which the panereatic secretion is supposed to be carried relieves the symptoms of bypodunction

Ligation or section of the paneratic ducts causes simple atrophs of the spleen to one-third ut size and enlargement of the throad with an increase in the amount of colloid and the amount of incline in the colloid. In experiments curried out by Sweet and Fliss (134) it was found that this operation delay of the onset of team, following complete estirpation of the thirtoid and parathyroids.

parathypoids
The pancreauc function has a relationship to ovarian disturbances. Lequeux Chiric Partie sugar lolerine white reported cases in his between the sugar lolerine was provided as the content of the content o

investigation these changes were observed upon the removal of the corpora lutea Probably these organs serve as organs of internal secretion in the ovary and the pancreas attempts to replace their secretion These observations are further supported by Novak (104) and Krusen (83) Stolper (132) concludes from his experiments that the ovary and pancreas have some relation to the carbohydrate metabolism since ovarian feeding improves the condition of pancreatectomized animal and removal of the ovaries makes it worse Cristofolleti has shown that in castrated animals an adrenalin glycosuria occurs. As the ovary checks the adrenals Fuerth and Schwartz (cited by Stolper 132) conclude that there must be an antagonism between the adrenals and the pancreas

Thymus Frank (39) and Culbertson (22) state that the thymus atrophies normally at the time of puberty. Its persistence is associated with marked gential aplasas and infantilism. On the other hand early cophorectomy causes enlargement of the thymus. Hyperfunction of the thymus is associated by some authors with status thymicolymphaticus and by Matti is believed to play a part in certain forms of hyperthyroidism. Early disappearance of the thymus lead to premature maturity. According to Frank (39) extracts are of questionable value.

Pineal gland Frank and Culbertson regard the pineal gland as non essential to life Its hyper function in adults leads to obesity or cachexia in childhood to no definite results. Normally it atrophies at the time of puberty. Its hypo-

function causes bodily sexual and mental pre

Spleen The formation of numerous corpora lutea which occurs in many chlorotic women occurs also in splenectomized animals. As in such animals the splenic element is absent Aschner (3) concludes that in clinical cases the feeding of splenic tablets might be helpful.

From this brief summary of the action of the endocrine organs upon physiological processes and upon other organs it can be readily seen how easily the mensitual function may be altered either directly or indirectly by any endocrine dyscrasia and that such alteration may be at tended by dysemeorrhoze

Gross Pathology

Functional pathology Aside from endocrine pathology the chief subject for consideration with regard to functional pathology is membra nous dysmenorrhoea Endometrius glandularis hypertrophica and endometrius glandularis

hyperplastica are merely phases in the normal uterine mucosa during the premenstrual stage of

the menstrual cycle

Anatomy In the opinion of Eicke (28) kaete (75) and Hitschmann and Adler (68 69 70) the membrane which sloughs off from the uterine mucosa during menstruation is a mem brane of menstruation not of gestation Ex amination shows that the mucosa is thrown off with some stroma and a few glands. The mem brane is similar to the normal mucosa of the premenstrual period and may result from over growth of the endometrium near the os-cervical adenoids according to Royston (118) Bell (6) asserts that the nathology of the menstrual casts shows two types true blood casts and endometrial casts which may be thick or thin All these casts show cells with a decidua like character This membrane therefore is not associated with preg nancy although it is difficult to distinguish from that of pregnancy It is a product of evudative endometritis at the time of the menses. On the one hand there may be a membrane covered with epithelium with scant glandular formation and stroma tissue filled with exudate and decidua cells while on the other hand there may be a membrane without epithelium with glandular necrosis internally and with scarcely recognizable stroma tissue filled with leucocytes Between these two are numerous intermediate stages

Occurrence As reported by Royston (118) membranous dysmenorrhæa occurs in three fourths of Williams cases and in two-thirds of

Scanzoni s cases

Ethology Eache (8) von Franque (42) and Polano (107) have stated that membranous dysmenorrheca is of inflammatory origin but Hitschmann and Adler (68 69 70) whose word appears to be rehable on this ubject contend that the presence of inflammation is indicated by plasma cell and in this condition such cells are absent. The membrane is characteristic of the membrane present during the premenstrual period decidual kie cells are present in the stroma tissue and the epithelial cells form a compact superficial layer and a spongy deeper layer Menstruation. As the blood is not able to

penetrate the mucoss it strips the epithelium from the uterus and if the resulting sloagh doer not pass out of the cavity it causes extreme pain Usually in such cases it a expelled in about three days the pain their ceasing. Large clots usually cause olde, by an Warn bleeding starts it may collect in the deeper layer and separate the compact layer all around thus forming a mold of the uterine cavity. Histoliuman and Addir (36 69

o) conclude that the process is that of nermal

men trustion

Constitute nel excholory. The conditions men tioned as as oxisted with dysm northea are thise which I are been rejurted in the literature Other disea es mi ht be alled but these men tioned may be accepted at the eventual causaing fact is. They may occur all ne or in combinato n with local or end crine le turbances

Ceneral tx r health (H H n t) thystal weakness (how ton 118 Matter out and matnutriti n (HAlen 3 Levst 2 114) are el la allied orno mitant of dyamen erl ra

Interactions (Kermaue 7 of Mathes 21) 1 usually an added thems of a then, a and mal nutriti n. Its bearing on dy men ribera is > \$1.0

Chi this (Cithons 40 North 101 Cra fentiery to Ascheim () is frequently a vicinted with do nen fibra. It secured in 101 of 211 cases of primary and its case of ever him ly men erhen (Ic3 er 135)

Sir fulls was recent in thirteen of its cases of in an dysmen ribra in T to senes (ego) Ascheim (1) also mentions it a a cruse of the

men stb ra

Thibits is frequently a sociated with his men rib a. It seems to favor this e chicon According to Craelenberg (50) u let I velyment of the g mints may be lue to tuberout on which later heal. Tuber ulwi is sometimes manufested only by dismenoral en and anomal Corrects n of the general condition countly lead to n rmal men truati i (1 Per 110 Novak 101 Macht 88 Lerencz (2)

The frequent scurrence of anomia with his menoril ra (II I'en 71 Neval 101 I vot n (15) is emphasized the cititis may be remary or secondary to b keem malaria

(Hensen 57) or tubercul i (Ferencz 12) In tability of the nervou a tem may result in lyamen and ma (Holden 3) and severe crams in the I wer at I men may result from increa ed irritatility of the auton mou nervous system (Block 7) His term unac impanied by dies e semetimes causes dy men relain. Operation has been performed when the unterlying centiti n was n t su pected. It may present the u ual hysterical manufectations convuls no hemian obsia parasthesia anysthesia etc Frequently it is a oclated with hypola in I the uterus The pain usually occurs on the day preceding an I the first day of menstruation (Koli cher %2 I olano 10, Novak 104) I rimars neurasthenia is dependent up on environment heredity me le

of life etc. These mu t be corrected bef re there can be any home of a hel (Novak 101). The see in lars, type may be the result of many years of suffering a high has worn diren the normal ners us sy't in crief a hypersen to e sessicue to scupati n (N val. 1 1 k vston 118) Mental der res i n is of cor feralle int nta ce in the in factin of hismemorth ra (Rivet n 115) In six of I'll e s eases (115) the cause wa ruchie hak

Suffit habetes rephriti chroni carlac hear tymene i fection whas to The and the nicli washing must be beene in mind Pit r 1 to A tet Act r cit c 11 (11) Mathes oil Ira ma lue to lo travel excessive tunning it dancing after men trustim ac counted fr twelve of Tol 1 rases (11)

Local & gr 1s T Hr ave it imports t to use jul most in letermining the bearin of pelvic I wase or men truation. I seal I sease may a utinight full of is menorthera.

Ceneral pelvic fahal my A tuck of the relate n of the men trust if w to lysmen ribra in hates that men erhagia occurs with the conditt a much in re-free ently than dies of it thira. Latly cales of tuberculous are attended with menorthag van Hate case with committee. I lyice men trin (Kerr super o) which rise be prived by tilter t (I ther 135) van cost of (Well of 140) of orani m (Kermauner (a) may be the fact r tesps not be for dysmenor if in Hill f the w men with secondary dos men rel a are ulject to en tipation. Frequently the causes from the lever left qualrant through the presone of the sorm of the cure on the left evan (Kermauner) Toll r 135 K v struis Math 100 linles at hise 1151

Neural, a a a term which shall be used with crutism I buc neuralg vi im lar to neuralgis of the face be n characterized by bootin par s. The cruse is not definitely known (Novak 101)

An makes con ental and acquired. The an male t ferred to in the literature affect only In it is no the recaute doment rl ra Cervical ten su or cicatricial contraction thell u 140 kmet u 115 l fano 10) con genital racquired acc int fra, per cent of a e i dismenorth a (Theilhaber cited by lotter 145) I fler tates that sten was it Ifi ult t lem in trate ince the mallest opening is uffice nt t a comm late the flow The con tric to none be in the internal os the external os or the neck f the uterus (Kalled v 6)

1 corting t Kennedy (5) malposition of the uterus may predi pose to ly menorrhera but mutntbecnileredasseine Wellon (140) Young (142) and Kalledey (76) however look upon displacement of the uterus as a condition definitely productive of dysmenorrhæa Prolapse (hermauner 79 Tobler 135) retroflerion des census (Tobler 135) and acute anteflexion (Morton 100) are held equally liable Angula tion of the uterus (Behan 5) causes venous stasis with clots and a very profuse flow (Koyston 118) Retrodisplacement of the uterus should account for 41 per cent of cases of dysmenorrhora accord ing to Holden (73) who found that 86 per cent of women with retrodisplacement have dysmenor thera Judd found dysmenorrhera in 50 per cent of 176 cases of retrodi placement

In maldevelopment of the uterus the opening is too small to accommodate congestion and flow (Behan 5 Holden 73) Usually in such cases the menarche is late and the pain begins with the onset of menstruction or one or two years later (Poyston 118) The rudimentary uterus is associated only with amenorrhoea. In ca es of the infantile type of uterus the flow is usually scanty and pain may or may not be present at the time of menstruation (Novak 104 Kennedy 78 Polano 107) In the subpubescent type of uterus which is only slightly underdeveloped there is pain at menstruation and the flow may be scanty absent or excessive (Holden 73

Novak 100)

Trauma On opening the lower abdomen in a case in which pain seemed to be associated with menstruation and a diagnosis of dysmenorrhora was made Child (17) found that a contraceptive button had caused the expul ion of the menstrual blood through the tubes into the peritoneal

Inflammations Pelvic inflammatory conditions are held responsible for 37 per cent of cases of dysmenorrhota by Holden (73) Behan (5) Ken nedy (78) Novak (104) and Weldon (140) agree with Holden that dysmenorrhoea may be caused by inflammations Severe ascending gonorrhoca of the entire genital tract occurred in twelve of Tobler s cases (135)

Salpingitis with or without pophoritis may cause trouble (Tobler 135 Novak 104) cording to Bandler (cited by Royston 118) from 8 to 10 per cent of all tubes removed for inflam mation are tuberculous and involvement of the tubes is found in from 30 to 40 per cent of cases of tuberculous peritonitis

As a result of infectious diseases of childhood appendicitis tuberculosis chronic constipation and gonorrhoxa sclerotic changes may occur in the ovary and give rise to ovarian dysmenorrhoea (Royston 118 Tobler 135)

Endometritis is an uncommon condition Cul len (cited by Novak 104) found it forty eight times in 1 800 examinations of the endometrium Hitschmann and Adler (68 69 70) claim that there is only one form of endometritis viz endo metritis interstitialis this occurs in the uterus is similar to inflammations in other organs involves the stroma and is characterized by plasma cells In chronic cases it stimulates the formation of connective tissue Of Tobler's 122 cases of dysmenorrhæa occurring after marriage or child burth forty six showed endometritis with or without involvement of the myometrium

Myometritis parametritis perimetritis and inflammations of the acro uterine beaments are rather rare but may cause dysmenorrhoxa (Roys

ton 118)

Neoplastic diseases As a rule the part played by new growths in dysmenorrhoea is that of obstruction (Novak 104 Royston 118 Dalché 24) According to Holden (73) myomata ac count for 11 per cent of the cases Novak (104) states that dysmenorshora is a complaint in from c to 25 per cent of cases of myomatous uter: The fibroids which cause the most trouble are the submucous or intramural growths

Polypi (Behan 5 Poyston 118 Weldon 140 Dalche 4) cystic conditions (Weldon 140) and malignancy of the cervix or body of the uterus are also of importance (Kennedy 78)

CLINICAL PICTURE

The clinical picture of dysmenorrhoa varies according to the severity and type of the under lying disease A condition which leads to extremely severe cramps of the uterine muscle will give ri e to spasmodic pains which may be mild or agonizing The presence of extreme congestion of some or all of the pelvic organs may cause a sensation of a dull dragging bearing down nature frequently more marked on one side than on the other The time relation of these pains to men struction will be determined by the cause of the uterine contractions or the influence controlling the menstrual venou or arterial hyperæmia

DIAGNOSIS AND PROGNOSIS

In the diagnosis dysmenorrhœa must be differ entiated from ectopic pregnancy abortion ap pendicitis kidney stone hydronephrosis cystitis tuberculosis and other abdominal conditions capable of producing pain Because of the periodical recurrence of dysmenorrhora its recog nition is usually not difficult but when it occurs for the first time after several periods of normal menstruation the diagnosis may require some study. It must be remembered that dismenor rhera may be secon lary to the all iminal conditions with which it may be confuled.

The chance of cutting hymmorths a is san outh estimated at so to keep even to Noval (104). I renation (20). Hirsch (66). Binking (10) and Littenberg (66). No one method of treatment will cut eall case sance it e un delving conditions vary. Therefore the prognous depends solely upon the albity of the practitioner to recognile and correct the un lerlying causes.

TREATMENT The best results have been of tax est from

hypien c measures carried out over long periods of time. Drugs and operative n casures should be regarded only as supplemental Hypienic measure: keculation of the boriels

Hygenic measure is kerulation of the boxels is generally accepted as one of the hirs steps toward normal function ago of the boxel. Notak (14) Mostron (100) Index (13) Fixe (145) Kermaumer (10) and Hamm in (15) time the use of purgatives if necessary to facilitate the execution of waster products.

I sectives of various sorts are go. I especially for those who are plystaffly underlies sed. Mother (not) suggests [pln, on the lack and rais, or the abd, men as high as possible and then lowering it alternately ten times inght and in mag this procedure being or infused. If exertal months life finish this meth. I succeed in an amost every care. For minuted, and exercise the purpose of this type of terriment is to full up the body as much as procedure in the up the body as much as procedure in the up that the purpose of this type of terriment is to full up the body as much as procedure in the up that the purpose of this type of terriment is to full up the body as much as procedure to find the purpose of this type of terriment is not in the grid of wo man who is mactive. The security life of the rattent has much to 1).

The sexual life of the fattern flas much O 3 with her x elfare. It is conceeded that onanin (kernasuner 9 Toller 13) will aggravate from during memoritation that the first year of mixtures of croute presentations (Schultz 13) on the other hand proper mantial relatin 3s on the other hand proper mantial relatin 3s on the grantee are the surest remedies for dysmen t these X-oyak to 4x Eernasurer 19)

During the attack physical quet gives rehef In a few cases of pelve con estion of non inflam matory origin activity will hasten the circulation and thus diminish the pain. Between periods it is essential to improve the general health by rest (Novak 104 Gibbons 40 Auerbach 4 Hammond 58)

Heat applied during an attack is one of the oldest remedies (Novak 104 kermanner 9

Herman 60) Between period warm clothi g stimulates normal metabolism

Historherasy during attacks and between periods at 6 neiteal. Hot foot haths (kermanner) hot sitz baths (kermanner or Bobbors 46 Hammend 5%) but vaginal or retail douches (kermanner or Hammon) 5% and bot matach baths (Hammon) 5% hasten circulatory literature (schulta: 123 kehem n) Hot drink as advised by Auerbach (4) serie the same turnose.

A change of climate sea air and modulain air are a lyised live Ferriaurer (6) and Scholiz (123). Local and general heliotherapy is also a valuable air in this condition (Buesary, 12).

Drugt Toncs are often prescribed. The best epicarations are perhaps those containing it on or attention. These drugs are used especially during the intervals between periods.

Inturusment s are given during the publish period of menstrustion a 1 sometimes below the train bernes in order to obtain their cumulative effect. The drugs most free jently referred to in the I terature include papaserin (Novak 104) ated (Novak tox Kermauner o Hammond, 55) 31 urnum prunifolum (Kermauner Libbo. 46 Novak 104) fincture of cannabis in lica (Novak 100) cannal in tannate (Clare 19 Gil to 46) that extract of pulsatilla tin ture of gelsernum (Hammond 58 Kermauner 9 Novak 104) tineture of hydrastis (Ham mon ! 59) hydrastinin hydrochloride (Ascheim Lermauner > Rothreck 116) guancum (Cit bons 46 Herman cited in Hammond 54) cenum oxilate (hermauner 7) and nitro-he erin (Hamm nd 58). Benes I benesate is said to have special properties as an anti-pasmodic Atropin in small quantities activates the uteras and in large quantities paralyzes it

Hymotics or solatives are sometimes necessive. Those most frequently used are breamles (hermauner o Norsk 104) acety benetick with definer (Norsk 104) antipyrin (hearded) § ketmauner 70) acetamili le caffeine (Norsk 104) the subcylates ((t)bons 46) pyramidon (Norsk 104) timeture of angiber spirits of objection syrun of accuss and aqua mentha piperita. In severe cases opiates such as paregon and coden (kermauner 70) are used.

In addition to these draws there is a small group with special actions which it might be well to include According to Hammond (5%) alcohol sumulates the flow Lecthin given beween periods is said to retard and diminish the flow without causing harm (Wilczinsk 141) Frgot (Ascheim r Rothrock 110) and cotarmin hydrochloride are uterine spasmodics and ac cording to Rothrock (116) are sometimes of value to create regular thy thmic contractions

Endocrine substances Ovarian extract or lutein substance may be obtained in powder form in compressed tablets or in ampoules for intravenous injection. The ampoules are best. The e should be given in series of twelve twenty four or thirty six one ampoule being administered daily at first and then at gradually increasing intervals for two or three months. The results are long in accruing (Hirst 67 Holden 72 Burnam 14 Gibbon 46 Maier 90 Hill 65) Some authors (Kru en 81 Schumann 122) have been unable to obtain good results with ovarian extract and believe that its therapeutic value has been overestimated

Thyroid extract may be given alone or in con junction with ovarian extract depending upon the requirements of the case (Novak 104 Maier 90

Krusen 83 Kermauner 79)

Pituitary substance is specially recommended for dysmenorrhoxa in which there is atrophy of the uterine mucosa a condition in which atropin is said to fail (Klein 80 Maier 90) Given by mouth this substance has no action. It must be intected subcutaneously or intravenously

Vasal treatment. The nasal treatment of dvs. menorrhora as previously stated is dependent upon the location of the genital spots in the nasal mucosa through local anaesthetization by 10 per cent cocaine hydrochloride \ aver (04) and Ries (113) report that cauterization of these spots by trichloracetic acid has given a permanent cure However there is sufficient controversy on this subject to raise considerable doubt in the minds of the unprejudiced as to the value of the treatment

Operati e procedures Dilatation like other operative procedures on the cervix has for its purpose the enlargement of the lumen of the canal to allow a freer flow during the period It may be effected rapidly or slowly. In addition the uterine canal may be incised from 1/ to 34 inch and the cut sewed so as to allow granu lation of the raw surface (Novak 104 Kenneds 78 Gibbons 46 Herman 60 Kermauner 9 Holden 73 Fenwick 31)

Curettage may be done at the time of the dilatation and in certain cases is an additional therapeutic feature (Holden 73 Dalche 23 Gibbons 46)

The intra uterine application of carbolic acid iodine sulphuric acid or nitric acid has been deemed advisable in some cases especially cases of membranous dysmenorrhoza (Novak 104)

In the absence of inflammation or adhesions the introduction of the stem pessary will cause rhythmic contractions of the uterus in addition to enlargement of the lumen of the canal thus developing the uterine muscle and relieving the distre's (Novak 104 Kenned) 78 Gibbons 46 Rieck 112 Carstens 16)

Pla tic surgery upon the cervix enlarges the outlet of the uterus through artificial placement of the parts. Chief among these procedures are the Dudley operation (Novak 104) the Pozzi operation (Pozzi 107) and the operations ad vanced by Bell and Frank (cited by Kennedy ,6)

Suspension of the uterus (Novak 104) and nuncture of cysts of the ovary (Gibbons 46)

have notbeen very successful

The intra uterine application of electricity—the constant current the introduction of the alum mum sound cathode into the uterus and the application of the anode over the symphysis or acrum 20 to 30 milliamperes for three to five minutes and two to five sittings each week-is advocated by Sloane (127) Kermauner (70) I omer (87) Hammond (58) and Sprague (130)

On the theory that ovarian hyperfunction may be the cause of the dysmenorrhoxa Hernaman Johnson (61 62) advocates \ ray treatment over the ovary to diminish its secretion. He gives seven applications each week until the skin of the abdomen is red. The disadvantages are the danger of causing sterility and injury to the skin

Oophorectomy salpingectomy and hysterec tomy are measures so drastic that they should not be undertaken until every other method has been tried and found futile. In the light of our present understanding of the subject such operations hould not be considered in the treatment of dysmenorthma

BIBLIOGRAPHY

Ischem S Zr An tomie de E d m tris ex foliati a m n tru lis nebst kl. i chem Anh ng lousati a m n ru us neoza a Ach f Gyn ek 906 lxxx 320
Ascinser B Uebe bru st ri ge Erschei ungen
(lifyp am und Ham ri hage m weil ehn
Genutall) ach blutt ner I jektion v n Ova ial

ode Il ce ta ext a t Arch f Gyna k

h 534

VSCINZ B Ueber M phol g u d Fu ktion d s
O rum u t n mal n und p thol gischen Ver
h k s n A ch l Gynack 9,4 cu 444

VLERS cu O the trait not of pa in dys
m o ber Med kl no i x i 366 Int
kl k s s o m Gyne 49

Med S g S g m Gynec 49

Bet av P n Phil d lph Appleto
Bett W B The pathology futen e ca is passed
d ang me stru to 5 rg Cynec & Obst

9 3 VI 651

- 7 Black I B Sime then the th t tment f d am p there am I Ol t tore level 8 Brex I B Ther ime t I brame he Im
- J Olet 3 5 1 1 045 J 4m M 4 1916
- > Burn A. W. Il pertirent m. a. factional m. a.g. for ky box Med Tord 199 x box 11 ft Arm 1 f
- ity Sig Coner & Ofet sott a 405 J O'nt & f yran Int Imp 1, 2 x 14
- tt B ttt, W D II t Agrees smpatt th It me g t ten erkret les th n M-enchen med N t wh 12 4 f 1 /
- 13 Bit S It Ih W m 2 des where the le IN BYTECO / There | I wer Sch ton fr
- 14 BR W C F Cipu I trument act I im V is (it is fill) by double timpessary for memor a fisher of
- Am. M. 1 x 2 1 x 7

 16 CH 19 VT 1 M Tutaneou tra qui t tiva 1

 ris tuste 4 m C 1 et & C 2 ts 1
- 4 0 niti C. (Je kremt t mentmatler shight flynthes km J Ott syst Chi C. C
- the C. M. t. Im. m. alicase 100 mt Livner II i Imr. 912 130
- 19 (Exar T () to path pall as milled next if men he a 1 mill J that A
- inse bitter of the form of the first a so (18 ft B) Be refured of the selections of the first bitter of t
- 11 11 11 as Cities to C V tody f them go se with
- talifement it won't it t
- or Check Ott 19 (1 60) 4nl
- f fift feat field good fitts to for tood the as the fitter in a father in the tenth to good at the fitter in the f I bet tid
- 3 1) Tree a WT Cralten and 1
- 2 Dar JB bitt if tat m fit Juteu Sex Core & Chi t r Dars it D R ha flung I D 6.1
- Zilliffynak gant ohi 12 frat I La tu hm krock ynech n Dec 1
- n n teu l n Deelf g litt ut (reb 11 u (n k 1910 1 4 1
 20 11 to 5 to 4 1 | 1 to 5] The kulwe ni
 M teut 1 h T leek 1 beh 11 g na h
- K 1 Speal Rh He Fell n Domn thie hoe Gente Il I C'm k ook 1 441

- 30 Ivet I In 1 O a lentra plat tion ellem be lieband gelei, lie eche un F to ka trienter & a greek n w ru
- If the defense every

 it from B Taim to an I from
 the not to but to the territ lint t nec J 1934 I t tra J (P t oo4
- 2 544 of the seal used to the
- Miles in 1921 (york 6)
- Cyper & Olet 19 x 2)

 34 Ff f f C \ Decr et J \ fm. \ M \ six 19 4
- tt lavik be til be til n be Copu team
- 35 Factor I Till other programmed a structure of the stru
- N h I t M I t) R
- free Actt 9 35 face PT To be bestellt as fessive
- It the little to grow and additional terms to the terms of the terms o 0.4 10 4
- 4 F x R F nd R>r complete work grall st of eith r nt fitheorp I tem Sure (y er & R t no y x 164) 4 kg y t O V trojo ndo kin D bl
- IN 12 AS THE ASSESSMENT OF THE PROPERTY OF THE
- (set the Cnake or list oil g ! Am or thos I tradit f n k s so fact min
- the aust in 1 thr twent 1.1 mens hera Sykhijk like of to
- normal trune hamorrhame J Am M As.
- 4 (Inc. 1 1 1) Dente for M h. net Which is 1 1 160
- we men we have a per 133m to be
 the the training of of
 the training the megalic nach have
 the training the median training the med
 the had a training the median training train
- by A Nou Iment I i ba es folk in catrat mi i en J Am M A 42 (15 1 1 100
 - " if the me net bekine
 - M b med M h schr q h y E — willImage notice ti Enclosis
 - Ink 14 or 1th or g f t lect im JOI to 11
- 647 51 Cr The Lrace B. R. Wu he
- H (I R II blid W k R I
- 54 (1 R II the d When we et fel T he test to Chuth (nak 94) 13
 55 H no J the d First d O I grahl g by test 1 M feel with C k 900 406
 - t wh

- 56 HALBAN J De Enstehung der Geschlechtscharal.
- 50 HALBAN J De LINGERBURG HET GESCHEURSCHAFFA tee Arch f Gynael 1903 Hz 205 57 HALBAN J ad FRANKI O ZUT BIOCheme de Uteru muko a Gynaek Ru debau 9 19 471 58 HALBAND F C Med cl treatment i dysmenor thora Am m d 903 vi 366 Am J Ob t 004 xlax 138
- 59 HENSON C L D cu o J Am M As 1912 1 x 62
- 60 HERMAN C L Dy m rrhoen Brit M J 1909
- 937 fi HER AMAN JOH. SON F The u e of the X ays in hyperact ity of the du tle s gla ds with special I rence to exophth linic gott r and c rta n forms

of ov ti

DT 30 HERNAMAN JOHN ON F I rays in the treatment of ce t in forms I dysm no rhora I cet 1919

dysmenorrhora Pactiti er 1017

- 63 HERRMAN F U ber eine w k me Substance im Fretock nd in dr Plet Mon ts chr f Get rt b u Gyp ek 1915 ab
- 64 HILL CA Th u e f cop a lute gynecology S g Gy ec & Obst 910 x 587 65 HILL CA A f riber c d at on f th use of
- c rpo a lut a in the t atment of the t he al me opa e e rg Gyn c & Ob t 19 3 x 2 1 66 Higher J Ueb d Beh ndlung on Stoerung n
- d 1 en Sekr tion d O a ien mit Glandu vin (E t act m o an le) Berlin kl W bn ch
- (b. tact in 0 sin x) string 2013 1 80 Hissi J C The ntr 1 of the d agr able 3 mp t m fth su gic line op u e by the hypod mic 1 am cular dimini t n f corpu 1 teum x
- tact Am JObt 96 bx: 649 68 HITSCHMAN F a d ADLER L D B u de Ute rus hl imb ut d's geschl chts enf W b mu W b mit
- be dre Brue ksi httpu gdr Men tru t n Mon t schr f G b tsh u Gyn k 1908 x u r 69 Hrtschmann F and Adler L De Dy m n h è memb n ce M natsech f G bu tsh u Gynaek 903 x. 00
 - II TSCHMAN F ISCHMANF dADLER L Delh Edmitnis Zish f Gebrih n de Gyma k 071 63
 - HOFSTARTER R Z B h d! ng d Ameno sh e
 - HOISTANTER K C 10 a ci wg a roweno in c Z nt albi f Gynaek 9 x v 530 Holde F C A e the pe ti p oc du s d n f dysm thæ and t nibty ju t table n th lght of d el pin at 1 t dy 1 m J Ob t 9 9
- bax 4 5 3 Hoad N & R Dym o hor J Am M 1 5
- 92 li 6
 74 J YEE M F Employm t of hypophy ry opo
 therapy gynec lg alp cu its mmed at
 li Med Pes 94 cu o
 5 harre L M n ts h f Gb tsh Gyna k
- Супа k 76 KALLEDEY L Z Lebe n de A ti log e und
- Oga thrp de Utrublut gn Gyn k R dhu q 3 vt 473 KENNEY C C Sugic I el fof dym rhora
- V sota M d 0 3 vr 5 7
- 78 KENNEDY J II Dysm orrhoe Am I Obt
- NENNEUX : 1961 77

 KERMAUNER F U be Actol gi u d Thirp der

 Dv m hoe M atsschr (G b ish u (yn k 19 7 xx 1 645
- 80 KLEIN Adren In and pit itrin in dysme o hora Mu nche med Wchn hr 2012 1x 808

- KOLISCHER G Nasal dysmeno rhœa Am J Obst
- 1904 xl t 804 KOLISCHER G A type Cope ative dysmeno rhori
 - NOISCHER G VOICE 1900 1 644
 Am J Obst 1900 1 644
 ARISEN W The p esentst tu f the corpu luteum
 organotherapy Am J Ob 1 1912 1 522
 organotherapy Am J Ob 1 1912 1 522 organotherapy Am) Oh t 1912 1 344 the I EIGHTON A T
- tr tment of menstrual disord rs M d I res 10 6 TCVIII 9 85 LEOPOLD and MIRONOFF M Beitr g zur Lehre von
- der M n truation und Ovulation Cyn ek 1804 xlv 506
- 86 LITZENBERG J C The u of benzyl ben ste 1 de menorrhor Am J Obst 1913 lexe 6 3
- 87 LOMER Discuss on f el ctrothe apy n dysm or hera Ve ha dlungen der G sell chaft fu r Ce burtsh lf in Hamburg 7entralbl f Cynaek 1891 tt 900 88 Macter D I Tub r ul sand me struction Am
 - J M S 1910 c 1 835
- 80 MACKENZIE W R The elati n f the corpus luteum to m strut n nd preg ancy Brit VI J
- 1922 343 MARER I II D cu si n Am J Obst 19 5 lxxu 945 MARCOTTS & Uele das C rpu lute m me strua tion u d d Corpus luteum gravid tat s Arch
- f Gynaek 914 cm 63 MARTY F H O ari n tr n plantation Surg

- 9 McAulier C R Hyperin ho s are toon in the
- f m l sec nd ry ual haract i ties a d in t n l ec ton I Am M Asa 916 lest 5 McDonald 1 Abn rmal uterine hæmorrhag in
- y guom A h Di g os 1917 361

 MEALER S R A p elum n ry note on dysmenor
 hor as n i du trial p blem J Indu t Hy gi e o iv 40 Int M d Surg S v 1022
 - IV Gyn c 17 98 MILLER J W Corpus lut m u d Schwanger ch ft d s j g te erhalt n m schlich E Berl klin
- Webraschi 0 3 1 865
 Morley W H Th the pettic application of ovan netree Det it M J 909 i 277
- MORTON R S Dysm o hera I Am M As
- 9 4 l n 175 Mosher C D A physi logical tr atment f con gest e dysme rrhora and k dred disorders ssoci ted with the men trual funt n J Am
- MAS 94 Lu 1 99 or No AK T The orpu 1 teum J Am M As
- No Ax 1 The Organ term J form at 1.2 g of krott 85 Not Ax L The organotherapy f me strut l d o de s Med & Su g 19 7 v 57 NovAx E V natruat on and its dood of Gpn co-
- logical nd Obst tri al M n g aph Ph! d lphi
- Applit h 93

 5 Novax J At p e n the teatment f dy m o hera We El Wehn chr 19 4 xxv1 2055

 ob Parke W E D cu ston hm J Ob t 9 5 l ti
- 945 or Polano O Zur B h ndl ng de Dy men rrhoe
- Muenche m d Wchn h 907 lv 730 108 POPIELSKI L The hypophy nd its pr par tion in conne tin with t ct ubstan e Be ! klin Wehnschr 1913 l 157

the tarsus an I attached muscle is then dissected free from the rectarsal fascia the spatula is removed ar I the I list of in normal postion. The three autur are then ta seit thr ugh the I fat th I el

f the cut bor! r from within out with care not to thee thent shigh which would be ultin ectronion or twil w whi h would relt in entry n The in list fail sutures are then tied over gaur e) In fers at 1th ents 1th sutures are fa nedt it face with a lf he to keep the closed until the anas of the olu I ris wears I lie ti te pa als sutures ar eut en tle sith 'st The leute te ult is It in lat the en loft une 1 (mplications to not arrive

In the cases of el feely fatients in whom the skin es than the free e er of the hid a blet haroch has lie st ter ulte. The ise recte it an eperaten milar t the Hessy where with care n t tollt the 1 1

Notines alegment oth am untaltimue t be scielinali nitka a lat t of thera el the r lity fit skin narrow p helval f ures and I net eyes m if the amout In gen ral line r the ex i nat ullbe emer greater th n th et et irvired If th mu de ex 1 m f pr ter than is event less should I e et el from the tateut. If u er treets a t the feal res it ex et n mut be r jegte lat a later fate O r correction ; c reet 1 to gr ing sutures through the mustle a taching it from the tarsus ar I con lunctive and then price ! g from without making a smm trite of preta salt sa ante ing it to them trues of the tarsu and fast a

The in atyone case operat I wan incl ! ! f cuft talp talste ptool f ar of pare a four of e ngenital it was and it of pt at combined with M I I I WALTE VID epu anthu

Zentmayer I : 11 Managem ntof II t ropt ori 921 1 161 16 / 11 /

Perimager states that the most important step in th treat int I muscle imbalance i the pr per est mation nie rrectanolit refracti cett r ar i that a cycl pl per exertifing it fra tir die minida if

len 1 1 and Brinn & 1 Lit Tie Fil logy ettett I tm W I ro 3 1 1 17 0

In the a to le fron and Brown report upen a second sets a f 100 ares f inti. These were stuiclin the s. me mann ras the frat series with th ir ported in 1916 Asther u brefactor ton sillar infecti n & e fr t (thirt) even cases) com bine I inl cti ne secon I (tw nts four cases) and ang hills third (tift in cases)

There ere fe er cases in which syphilis was a fact r than in the first series probably because of the s urces ir m hich the material wa drawn Fo the same rea n the gon xos 1 infections were les numerous Tonsillar int cti n was a more frequent cause in this serie than in the first Bental in fections were comm on tut the authors I heve that absociar abscess i a rendars to tur clar sel ta a This opin is probably chains it statistics an in reases the number of cases d e to tor ill r in velvement. There were f teen cases of & as in fection but in o Js on wa the combit with capie ci the intis. In pone of the cases was tuber plous r gar led as the cau alth gh in eight there a s est' ree I thi d case Ib to were three cases firm y per all printatit The ork f Iron and Me iv i mon trates a new avenu of injection nam is the mu on memb ar of the cone throat an lintestine In about (sper cent of the cases there was to te than we warre of infact on. The second thep ti ates raged agas to the younges pa

water th ollester The authors call attention t the fa t that f lies and the removal of infict I to be there may be t is improvement and ulti-ate recors with out a current of the intellement the infren e t framn th t the ir cet 1 ti e was t e cau e f the in ! In other ases the removal of u h tr ue l fo mel la a me striking and sulen grimmt mithal mitmertriurb firty eight hiar. The may be perma ent t fl welm af w is a by a r currence. The m me late in plotem at is pracentl very sit lar t the tartling but oft a temper ry imprement oc e rri gin arthriti ar lin inti f " wi th intra per injection of all go pe ten it is pe habl non speci i and m be m fea ng with reg rd to th case of the nition

the ft W s rr MD

Still L. Amaelic Iriti Occurri g in the Coune of Non Dysenteric Amortia is 1 & 1744 11 55

Mill report f ir as of int of king stan 4 g sith non lese tr meliciplect noith irtestine and a h to f he nic on trate a Two fthe se of rliulrth le tatin of ipecat I'v mouth a I'h pe i mie lly lie ause diarrbre was n t tresent th | m shilts f niertion t para stesh freen contitt v I k I

In the a sof perwine the hine constitution anzmia I will fir sure ni lon teni raes th tool hould be full tam If into on that is of dairth f rest l nth trates as n tessent lifers is gnost f m th

tie this if MD

Tor k F Iridect my in (I ucoma A A w Tect niqu I & Opt & ggt sa The class I one atton f relaucom is in fect my There are many the ri

it in it tion but It his based in the sumpthe one general? to a that normal intra wul rires ur is mainteine? by frainage fith aque u int the p. es of Fin tanalty himm and Inglu ma the paces of I at mar black It, th ir ort, platees ulate hed t n of ten son a lt ned b srider tom Is open g the pass go t the stic angle or th frmat on f n w cha n ib m ans of a

cystoid scar. It is obtained according to El ching either by detaching the root of the iris from the periphery of the cornea or by inci ing it and failure results if this is not done or cannot be done or if Schlemm's canal is obstructed by plastic exudate.

Indectomy is a safer operation than either the Lagrange or the Filiot operation and is therefore preferable Failure is due to faulty technique

Thencision is u uilly made antérior to the cornecited apuetire and never at it va should be done and the fault in the indectorny less pritty in the manner of grasping the in and partity in the way it is extend that is traction on the iri when it? grasped as is usually, the case is not in the vary that is the property of the control of the control in the property of the control of the control of the unsoff along the anterior edge of the al thesion. These faults in technique may be reme lied by

1 Making the incision v th the Graefe knife instead of a keratome

Detaching the root of the iri with a spatula before doing the iridectomy
 Grasning the iris with the iris forcers parallel

with the vertical meridian of the cornea The indectomy i performed by the author as

The indectomy i performed by the author as follows

The cychal is grasped in the limbus on the hor normal merdian with a double huxation forceps. The nation is made above the puncture and counter puncture being in the selera and the section is ter marked behind the limbus with a conjunctival flap if the risp polapses it i replaced. The conjunctival flap is grasped and pulled up so that the wound apper. The root of the ris is of tached throughout the entire catent of the wound with a spirtula Theinsforcepare it roduce i parallel with the wound and theirsis grasped pulled out with gentle traction and excised with two sweeps of the scrssors. The pullars of the coloboma are replaced the conjunctival flap is smoothed out and a bandage is applied

The advantages oft his technique are the following
The Graefe knife makes a large peripheral

incision with a conjunctival flap

2 Det chment of the adherent portion of the ris before indectomy assures the opening of the iris angle and the re establ shment of a c mmunic ton between the aqueous and the canal of S hlemm and may be carried far enough to open up the supra choroidal space in addition

Twenty seven cases were operated on by this method with satisfactory results

MANFORD R W TZ M D

Balley T L Subconjunctival Di location of the Cryst iline Lens with th Report of Three Cases K t by if I 923 (44)

Although traumatic subconjunctival dislocation of the lens is a very rare cond tion. Bailey saw three cases in fourteen months. In the is the advised enacteation. In the two others he removed the lens from beneath the co junctiva. In the second case the corrected vision was 20/100 and in the thr display.

Mills L Phacoeresis Im J Ophil 1923 3 s

Before beginning his discussion of the Barriquer intracapsular method of cataract extraction. Mills gives a brief sketch of Barraquer's hife Ignacio Barraquer was the son of Joss. A Barraquer one of Spain s foremost ophthalmologists. It the age of 13 years he began his surgical career under the guidance of hi. Inter in the eye clinic of the University of Barcelons. He has a very keen mind for mechanics and at present 1 a physicist of no mean rank an electrican of high or ler and all o an expert me chanics.

I haccoresis is the direct result of nni lex conceived while watching a leech at work. Barraquer induced a leech to attach itself to a lens and effected a successful extraction by drawing out the leech. Phacco resist persents no insurmountable difficulties but Barraquer advises beginners to attempt the procedure at first only upon ca es regarded as good oper attace risks. The fundamental point in the technique may be practiced on eyes of cadacters hardened in formol or on the lenses of cat made cataractous by injections of strong formol behind them.

The instrument shoul I be grasped by the middle finger on one side and the index finger and thumb on the other but with the fingers well flexed and out of the way while the thumb and index finger are placed as near to the root of the platinum portion as is possible \acuum contact is made by a gentle squeeze of the valve by the side of the thumb but without pressure on the lens. At its introduction the instrument is held nearly vertical the direction being given to keep the point down strongly at This brings the opening into accurate contact with the lens and if done correctly prevents any chance for spiration of the vitreous The maneuver is done wholly vithout pressure contact with the lens is maintained for a fraction of a second in order to allow the lens with its nucleus to mold into the cup and to permit the rupture of the zonule before rotation is begun

Ideally the lens is rotated around its own center whith without changing the position of this center until the lower border of the lens has become the upper border and the anterior face has been turned posteriorly. The hand rests upon the brow and temple which serve as the fulcrum of the gentle rotation. The lower border of the lens is rotated gently for ward into the pupil the back of the cup looking first forward then up and then gradually blocking the pupil as the lens rotation is complete. The motion of manipulation is almost wholly a visit motion with a little ishing of all the fingers in the final moment of extraction.

ly requiring a weight of from 5 to 10gm for rupture Zonules of hypermetropic eyes are tougher than those of myopic eyes therefore myopic eyes must be handled more carefully lization in the Bartaquet operation is mis by graping only the conjunctive and it scient a rest; early on different school of press below and it ghally living with the lonerpost after the inchann is begun. The incide in used causes the fe st are unt of deforming and I pressure. The Ann'e is inserted at a gibt angles to the scient and tumed parallel with the jris only after the two of the black that set the different schoolser. Bartaquet uses the violation will be sided to the black that set the different schoolser. Bartaquet uses the violation will be sided to the different schoolser than the first in reaches the first unabove the black of decide it channel and if waward to form a small tomore of skill.

The smalest post-be perigheral infectory is then male it unisety grap pelas ment the next as possible. A suture of fine black at 1 insert *ass though and through suture p. 1 g into both a ce of the wour! and a 'ould tide to place fut in test of the wour! and a 'ould tide to place fut in test the graph of the period to the cert of the subsection of the cert of great later I en x m et hos within no linus included before of the line of the I end of the cert of the great later I en x m et hos within no linus included within a characteristic and the cert of the cert of

After the state in the teetelf a near legion until all the states of the distat is near the ground until at the then littled of with the teeter to wine f with a state then littled of with the teeter than the state of the state

On the 1 i 1 h 1 i 1 ing with the sult tangle heranger (label that i namong) leed accept the form of the label that is the label that the herantee through the full (lau on in letting databanet with in or occur later a circul) in elarmajer operation 1 t n uge t in the the instrumintal's tratonimphis are up wifer us or other intro-occular litted are in his in these home out the course structure and the later has in these home out the course structure in the later up wifer us or other accordances in the later when the later with the later with

M m n R Watte M D

Notif J. A Conjunctival Apron or Safety Fl. p.in.
Cataract l'atraction: A lieuf r Its Ad. pti. n.a.
Routine Procedure 1 & Opt h. 923 h. 344

Jun taval fap anchere I in episcleral tissue and put to one all while the extraction is done. The author clima that when a flap of this type is preptly applied the wound will not open after the pateman and the put applied the wound will not open after the pateman as at a peraturg table. Yu. at Rescort M.D.

Thomasson A H: Chr nic Conorrhest Prost ti tie a Los ible I tiological Factor in Cert in inflammations of the Lye with a Report of Cases t & Ophik 1923 L 34

Thomas on call attention to the fact that shought it has his been known that the prococcus causes retast to ter atmation of the eye there is kill in others the case with a fact of the control to the control to the creation with a decision of the creation and there of any other cases with a decision of the creation and there of the creation and the control to the case the creation and the case of the

Treatment of Luctic Optic Arrophy End J

in a so flette optic atrophy referred to Suke it an un so fill promise that pilly alvano ha fight latroph recheled bouring.

s set ul aspects of a 5 gr of the breed mercun, a not so ose R a faroly 5 L F was reased to rot so not shown a marked control to the control of 1 f 1 was greatly by a lened and a three plas 1 and if 1 Was sermann test was most one time. The improvement in the condition control of the was reasonable and the services of the services o

A cf the interature on the pat degeneral of the pressal as discussion of themes and it pred so the corrier on that optic attribute on the corrier of that optic attribute on the total great of a side of the corrier of that optic attribute on the corrier of the total great of the pressace of symmetries. The only of the corrier of the co

If his ga f i correct th tan ctive luct c process t with he proce can be stopped if the spir where can be kel t Th he culty les in the ! c' that the a te of the active process is not very access iff I the sual m thods of attack. Intensi e use of I arran has been tried with moderate success the Swift Ill's m thod and others h ve had little effect in c ses of higher lesions su h as those of pareus and optic atrophy A I a good results following spinal treatment have been reported, but it is easier to und estand the f slures of these methods than thei succes es when the circulation of the cer brospinal fluid from the choron plexus downward is consid red Dercum has reported good result I llowing up nal drainage but brokes and Osbourne claim that intraspinal treatment is better various attempts have been made to produce a concentration of the drug around the opt merve

but the reports have not established the value of the

methods employed Schoenberg in 1916 stained the nerves of animals

by injections into the lateral ventricles and later reported five cases of optic atrophy treated with salvarsanized serum injected into the ventricles Suker has used the same route injecting bichloride of mercury good results in optic atrophy have been reported Amon, the neurolo ists the use of the intracranical route for salvarsan injections is not uncommon and massive do es up to 160 mgm have been given in this way with no unfavorable

Because of the encouraging results obtained in the author's first case five other patients consented to the intracranial injections Three or four injections of 1/50 gr of bichloride of mercury were given at interval of from ten days to three weeks \one of these cases has been under observation long enough to warrant the assumption that the process has been

definitely stopped

It is assumed that mercury injected into the basal cisterna will reach the meninges and pial septa of the nerve by the shortest po sible route Such an injection increases the permeability of the meninges to drugs in the blood stream in two ways by the simple drainage of the fluid and by the aseptic inflammation it sets up The increased permeability may be assumed to allow the passage of much larger quantities of antibodies than normal

The author draws the follo ing conclusion

Intracramal injections of bichloride o mer cury have given better results than other methods previously tried. In several cases the cond tion was arrested useful vision being preserved for periods of from one to two and a hulf years A negative Was sermann test has often been obtained by such treat

2 Intracisternal injection is a relati elv simple

and safe procedure

3 Improvement in vision especially following the first inject on is presumptive evidence of the pres ence of an active infiltrative process

4 The best results are to be expected in early cases with definite defects in part of the field but with relatively good central vis on at least in one

5 Good results are not to be expected in late cases or in advanced cases of pares s Even if the atrophy is not advanced the mor general the nervous involvement the less the chance of stopping the p ocess in the nerve MANFORD R WALT MD

keegan J J The Technique and Reaction of Intracranial Mercuric Bichloride Injections B t J Ophth 19 3 71 5

Cisternal injection of bichloride of mercury was used in cases of optic atrophy instead of ventricular injection because (1) it is more convenient incision and trephination being unnecessary and (2) the

drug enters a point in the cerebrospinal fluid circula tion considerably nearer the optic tract

The technique of entry is not difficult An or dinary 18 gauge lumbar puncture needle is inserted into the neck directly over the prominent spine of the second cervical vertebra and directed upward at an angle of 45 degrees so that it enters the cisterna magna at a depth of from 4 to 6 cm A guard at this depth is placed on the needle for safety. Twenty five cubic centimeters of fluid are withdrawn by syphonage and to 15 ccm of this are added 3 to 5 drops of a o 5 per cent bichloride of mercury solu tion This is then re injected by the gravity method

There is usually almost an immediate reaction of severe occupital and frontal headache with nausea and vomiting a temporary drop in the blood pressure moderate shock and a slight elevation of the tem perature Within twenty four hours the patient usually recovers sufficiently to go home but stiffness in the suboccinital region headache and nervous MANFORD R WALTZ MD ness may persist

Carvill M Bitemporal Contraction of the Fields of V sion in Pregnancy A 1 J Ophth 1923 3 8

Bitemporal contraction of the fields has been observed in pregnant women by various ophthal mologi ts for the last twenty years but some of the earlier observers failed to recognize this condition as due to enlargement of the hypophysis In 1922 Finlay of Hayana drew the conclusion that the contraction was due to compression of the chiasm which often occurs as a result of normal hyper

trophy of the hypophysis during pregnancy
In 1908 E dheim and Stumme conclusively demonstrated the incidence of hypophyseal en largement during pregnancy that this enlargement occurs chiefly in the vertical and lateral diameters due to enlargement of the anterior lobe and that the increase is never entirely lost. Thus they proved one of the two points necessary to establish the validity of Finlay's conclusions. The second point nec ssary to establish these conclusions is that bitemporal contraction of the visual fields is fairly constant This was proved in a series of 100 cases at the New England Hospital for Women and Childre The women examined were intelligent pregnant women without complications The fields

ere determined in daylight from a northern ex posure with a perimeter with a 26-cin radius using a 5 mm opaque white test object Twelve of the 100 patients are not considered in the discussion as the last examination was made more than three weeks before parturation Of the remaining eights eight 5 6 per cent were normal 94 4 per cent showed more or less bitemporal contraction 25 per cent shoved a contraction of 20 degrees or more 56 5 per cent showed a contraction of from 10 to 20 degrees and 12 5 per cent sho red a contraction of less than 10 degrees Five degrees was the minimum considered Fifty-one per cent of the women were pr mipara MENTORD R WALTE MD

Sich ! A W and Fraser A R : Hemlan plan the Sole (7) sical Feature in Untreated Secon d ry typi m Fa J O Mi 1915 to 515

Cotries tigrie nie teach a cerelina malin a I emert in syl I s occurs e il tee that all all observata a thire are twi

ti et etran fejir hæte a leri traf anl reur too hie strain and the have a li te sel ti eacti e Th a e la ti centri le rismi sistemis entally on il prophati e il e n mb a a neur e ghi strain is prosenta il ating cer trat roanif tati r to the early at e mer The manerall smute the cortisch with n ar rec 1 es wh h f l w the almin teste n f sal rear are r t tare and are I to pref te t tratm twith ma e tweet sal ar an

Insultrated woold ! a fth rect r atlance of the fit among the of savul e tege in lat game too and detent gaw erics a little turneb rat tite Hent nera letose ingell abetaenthed man ! recipital lateral in trace but is a allo a lit is a

f tatt n The author test a a thirlichar re (it elisteen magninging of emilitial lin eight week with it any more all ter ton t . \ oth rannit n frael test a till four m oth Lter whather it at remedit the i may it alth the wal gott tund halt et eght whose ing The storeats wishered A pin I it I test was riu f The phth Im examilation w part I regate e t it that it stone tenmi tim is if the tath Hof echfith leofle rat t ngt th nelteful fast of at I forced treatment at 1 n wa c mpl tels re tor I in the left e e a ! mureth aballs to linther to the ar ath The bin mi bins punth eight sight the linante tate in 1th lisease The line

I al lata me to at coatle the tract termen the cha age 1 th o tical ent c Warna W T WI

Von der Hadt R. Allt Lamp Microscopy of the Li ing byer it Aid to iti tological Research an fa all finem at i tOphit Imic bi gn wi Ok M At J to 3 1 775

Indee Halts at out the grifants of th intell, no a of the still pin in stigating th largese nith impetir fith tal trail ophthalmose pe ni sit lamt in the extern nt i th most in oththalm I git ff e

flest then I us it tuly the coree in all of its parts including the limbus the iri it In and the metia of the ever grow and viren With a amile attachment it in he mol s f t study the s reche t and r tina at rem 1 !! The I no ery of very e tly hang a in th se str tures I is to from it tre tment at a sequ ti pr mpt relef May filing to be n tro el normal which h retof re were on il r d ith log Trou slo turn M D ical

B nedlet W 1 and knight M 5 : Inflammaton I sendotum r of the Orbit 1 3 (944 1 542

Infammat to parul tum roll to at the armanafel el icale nitenab hin ntlin ir escan at still toy I grant with stor to grein nat n 1 th to any 1 Th co 1 n s
char eter ce 11 1 th mid ty of the pre t wit a alla with I ter i - tefth eje nite a et l li swel of the l ani a t crease in the tuk of it t ter! f et ichtytetal e ti matri 11 " mmst 43 771

Birth Here ell I i tin fge 't rom laster! It the authorith to most thermat in

two with the systmate ga utrale iten a trewtol anarta in bit r tres eft te I lit to I from have mile mit straig i

lour famin tahth ug a efetial ti remit from a pale to be to be tom to the rich anthe at the erecel ir to take in the funt is for at with tormany early id or it cast by itampate time is we rret thre belong the sevent gr r 1 th t th thel gro- 37 tr sertel 1: 11 the grant wat med a le go mai a t out I poly layer I three aw r t to wa to i t trent a lath ther m rose is in tion I the turn its reel t questa a pros. I them to be a cammat 19 in h t

gio nitt i i g ff to niect nelsen re the life granification of obsilism make the highest seems proti in seeth til will geometi be e ert i im itli tibe men gof the butten ith the Arthream t theen to 1 11 r is m nit 1 thierale to c rulent lars tite

It has be no extred that the learnes of fector's

A th fat I t wall n t I cone fr m the th almen off rhehlu antecout nd for I pain servers 1 1 that pieu tumors from the cmm a transmitter jaw ses then
the ctit 1 appears to his to reported us a to traing and an it a lagen w lut in the

ascer ported the w n entine of nincre of in th. I mphosates in th. I. soil

In this it we t likel the groups if myhcates a see ling ill | with an later ring of the a ell the niart rit chinges and the ab sen e fall on in len t griwth form the thata t n.t | th l | al | ct re described in the literatu The m croscop in ings in t of the cases o respe ted I nely to this description and in these tw cases the xophthaln os had pers ted long at In the others the pathol g al picture showed considerable variation. One was complicated by hamorthage and another by acute secondary in fection due to repeated attempts to drivin a possible orbital abscess. I third showed the follocular ar rangement of the by mphocytes without the plasmacells. As proposts was of the shortest duration in the e cases, the findings were interpreted as earlier stares of the same patholocural process.

MARY S KNIGHT M D

EAR

Friedenwald II and Breit tein M. L. Unusual F. ms of Extension in Purulent Otitis Media with Special Reference to Invol. ment of Gran Therres L. 2 5.80p. 93 xx 1: 8

The authors report two cases in detail and review the literature

In the first case reported paralysis occurred in the telt palvine aris, the left sade of the tongu and the left word their I and arytenoid. It appeared probable that the cust-chain tube the peritubal tissue and the semicanalis tensors 13 mpans served as the route to the extension of the puss from the middle ear to the retrophary ngeal region. A retrophary ngeal are so sat this level might press directly upon the glossophary ngeal and a ces orv and hypogles at least a supplied to the process and such pressure would "palvin all of the norms and such pressure would" splain all of the

The probable cau c of the abducens pa alsoss in the second case v as toxic neuritis due to the reten tion of pus J is C B α well M D

Kerrison P D The Indications for Surgical Interrention in Acute Suppuration of the Middle Ear Lay to p 9 3 8

Surgical intervention as outline I by the author should include only my ingotomy and master le tomy

The in lications for myringotoms a c e ra he election of the temperature and impriment of hearing associated with phy als sign of inflammation and bulling of the diam membria.

The indicati n for masto lectomy a the follo

I fostauricular cel mi r ubperio te l'abscess 2 Definite ma toi l'ten' mess i indig wel beyon l'he l'mis of the antium and sho ing no tendency to lecreise with in rish n'dly follo 1 g mission of the drum membrun

3 Marked vari tion in the mount f di charge extending over a considable period of time the Periods of fivish wing an amount f just obviously too great to be of purely tympulic or gin

4 Ir longed d harg from the ear soci t d with per tent nd mark d him nution of hearing

5 The drup ng 1 u n memi rane which continues to exu le pus after one or more myr ngotomies

6 I sud len change in the temperature furing the course of any acute or subacute tympanomastoid infection

7 The development at any time of homolateral abducens paralysis with evidence of tympano masterd infection

8 Symptoms of septic absorption

In a case presenting unmistabable signs of mas tool infection a steadily increasing leurocyte count would be of great surgical significance. On the other hand in the presence of certain clearly defined local indications the absence of marked blood changes would not disprove the necessity for surgical intervention.

Mckenzie D Discuss on on Labyrinth Deafness Brit M J 923 ii 867

Of the cases cited in both of which according to ear tests the deafness was of nerve origin one was entirely cured by cleaning out impacted cerumen and the other by catheterizing the eu tachian tubes Henc we are compelled to admit that nery deaf may be in fuce I by a simple obstruction in the conducting apparatus We are not in a position to diagnose any disease of the labyrinth or nerve deafness in its earlier stages from the results of tuning fork tests but the deafne s in many cases of the Mensere group for example is often quite triffing and yet is often due un loubtedly to laby rinth disease. If then leaving vert go out of account for the moment the signs of nerve deafness are present and if on a general survey of a case—the histo v the subjective sensations the objective appe rances of the tympanic membrane the nose nasopharyny and custachian orifices and lastly the results of custachian catheterization-no sign of mid lie car or meatal disease is found it is metili able to onclude that in smite of its milliness and po s bly brief duration the deafness is due to a listurbance n the nerve organization. One of the mo t import nt determinations 1 the type of deal ne s present This then is the proper use of the hearing t sts. They can be used only in combina tion with their correlatives

Speaking of mi el desine s Mckenzie esplaina the presence of the satiso of nerve dealiness bi an extension of the middle ear disease to the cochies on the bit of the bit of the middle ear disease to the cochies on a single cause of nerve dealiness is mid-like at deal e. Liby brinth diseases in adult life eal lom leads to complete abolition of functi in. Of the non-ju ulent i series afficting both ears progressive ner d afines supphilis and epi lenuc meninguis lone re habile to en 1 in absolute Jeafines.

Veute disea of the laby annih is accompanied by attacks of severe and sometimes prologing desting hereas in chronic laby inthe disease, while the restibular ections are often impaired vetted to the second laby and the second laby and the second laby the disease the second laby the disease the second laby the sale of the second laby the second laby the second laby the sale of the sale of the second laby the second laby the sale of the

The ve tigo so e mmon in labvinth disease may be due to impacted cerumen or of struction of the custachian tube In cases of suppursation of the middle ear the labyrinth storm occurs under two conditions first when purulent laby inthitis is set up by a sudden and massive invasion of the labyrinth spaces by a decident of the labyring states of the labyring states

From these facts it appears logical to assume that when the labyrinth storm occurs in the course of a chronic or aubacute non purtlent otitis media some thing happens which is comparable to the serous labyrinthitis of purulent otitis media. This may be the same kind of change that induces the nerve

deafnesselement of a mixed catarrhal case.

The lesson which induces the labyrinth storm of herpetic deafness is known. In this case the virus attacks, not the end organ, but the vestibular ganglion and with it usually the ganglion of the cochlea. This variety also is non recurrent.

In syphilis of the labyrinth the labyrinth storm is a frequent and recurring symptom. The author speaks of several different groups of

labyrinth storms

The mill type which gradually subsides

leaving the patient more or less deaf. This is bene fited most by medical freatment.

2 More severe attacks occurring frequently

2 More severe attacks occurring frequently induced by slight causes and having no tendency to spontaneous cure. These are probably due to a rise in the intra labyrinthine pressure.

Mention is made also of labyranh deafness due to degeneration of Cortis organ from over stimulation and the deafness corresponding to the pitch of the causative noise Senile deafness is often relieved by the removal of impacted cerumen. An instalous the properties of the control of the pitch of the new deafness. This develops without labyrath or canalicular tiratation tinnitus or vertigo. The author believes it as premature senile change.

With regard to a phales of the Libyriath little is known. A Wassermann test should be made in all ca es of deafness occurring before the age of 50 years especially if the condition is progressing rapidly True nerve deafness necessitates a general examination.

In conclusion the author expresses the belief that treatment will always be unsatisfactory as nothing can restore a destroyed sensory end organ and nothing can requivenate an organ of Corti degener acted by age and disease. However although secannot cure a destructive cochlear lission we can at least prevent its occurrence in a large group of cases. There is reason to believe that most cases of they rank deafness and many advancing diseases of the modified ear on the if not cured at least thecked Fleeting attacks of middle ear catarth in children and young, adults occasional attacks of carache and any young, adults occasional attacks of carache and

slight attacks of deafness following a cold should receive carried attention A heavy responsibility rests upon those who enture to decry such a simple operation for example as the timely removal of adenoids in the young as there is good reason to believe that the triming and evinescent attacks to the product of the triming and evinescent attacks are supported to the product of the product of the internal control of the product of the product of the internal control of the layrunity and intergrable involvement of the layrunity and inter-

NOSE

GUY L. BOYDEN M D

Cohen L Immediate and Late Treatment of Nasal Fractures La yngos of 19 3 xz.: 847

Recognition of nasal fractures presents little

Largely th ough precedent it is customary to wait for the swelling to subside before correcting nasificatures. Cohen believes that better results might be obtained in a large number of cases if corrective measures were undertaken as soon as nossible.

When both nasal bones are fractured early setting is accomplished by the simple method of lifting the depressed fragments setting the fractured bony septum in the midline and retaining this position by the introduction of gauze packing into the nose and the application of a spinit reternally

When the bone of one side is completely fractured with the bony septum and the other bone is only slightly cracked setting is more difficult. In such cases the entire nose must be mobilized with the Adams forceps and possibly with the hammer before the bones are fixed in place.

In the cases of adults local anaesthesia may be used In those of children the author uses ether JAMES C. B ASWELL VID

Gillies H D D formitles of the Syphilitic No e

Deformities of the syphilitic nose are divided into three groups

r Those in which a small amount of cartilagin ous septum with its mucous membrane may be lost 2. The common type characterized by loss of the bony cartilaginous bridge combined with great

destruction of the mucous membrane
3 The same destruction as that in the second
group but with additional destruction of some or all

group but with additional destruction of some or all of the external skin GROUF: The deformities of this group are un common They are confined to the bridge of the nose

common They are confuned to the bridge of the nose and are due to the loss of the cartilagnous support They are treated by the implantation of a p eco of cattilage to give the nose the shape and support or ginally given it by the septium GROUP? In this group it is important to supply

a substitute for the fost mucous membrane in addition to a substitute for the miss in bridge of the nose The author uses Thiersch grafts and describes his method of introducing the skin graft. A cartilage implaint is used as a substitute for the miss of bridge GROUP 3 When there is destruction of the external elements of the nose in addition to the destruction found in cases of Group 2 more or less extensive rhinoplasty is necessary

Persons with syphilitic deformities of the nose should be kept under control by specific remedies but a positive Wassermann reaction is not a contraindication to operation William B Stark MD

Vates A L The Simulation of Acti e Pulmonary Tuberculosis by Painless Maxillary Sinusitis La ct 1923 ccv 968

The author reports several cases in which pulmon ary tuberculosis was simulated by manillary sinusitis and describes at considerable length the physi at findings in the nose and throat in cases of (i) pain less manillary sinusitis (2) pulmonary tuberculosis (3) pulmonary tuberculosis complicated by sinusitis

In painless maxillary simisitis the nose generally appears normal and the airway is good on both sides On the affected side however there is generally sight enlargement of the middle turbinate Pos terior rhinoscopy reveals mucopus or an excess of mucus in the nasopharynx The posterior end of the middle turbinate of the affected side is enlarged its outer or meatal surface may show irregular hypertrophy and mucopus is usually seen in the posterior end of the middle meatus. The soft palate is thick especially on its posterior surface where a rounded thickening occurs above the posterior sur-face of the uvula The reflex sensibility of the soft palate is generally greatly increased. In some cases spontaneous comiting occurs This is overcome after a few days by painting the pharynx with silver nitrate The posterior wall of the oropharynx is red and shows on its surface a network of blood vessels between which the mucous membrane i raised above the surface and of a velvety appearance The posterior surface of the tongue shows marked hypertrophic masses particul rly in and at the sides of the glotto epiglottidean pouch

The larvingtal changes depend upon the position of the epiglotis and do not occur when the epiglotis is littled backward so that it touches the posterior is littled backward so that it touches the posterior barrangeal wall. When the repiglotis is seen in its normal situation the entire larvinx is red. the posterior surface of the arytenodos is greatly hyper trophed and the mucous membrane ord the space wherein the separation of the space of th

The mucous membrane co ering the inner surface of the traches is red thick and actively secreting and the traches is red thick and actively secreting and the trachesl rings are rarely seen through the mucous membrane. The tonsils in these cases are usually bypertrophied but when the affected sinus is drained the enlargement often disappears. The

tonsil on the side of the affected sinus is practically always the larger

Pulmonary tuberculouss is characterized by pallor and lack of reflex sensibility of the larying orophary at and laryingophary at and to a less extent of the nasopharying. The nucous membrane through out is thin and lacks reaction. The larying is pale the arytenoids are small the inter arytenoid space is marked and the vocal cords appear thin. Posseriorly in the posterior commission the mucous membrane is white and thickened. On phonation this thickening is squeezed into a shaped protuct of the property of

The same pallor and lack of reflex sensibility of the mucous membrane of the palate pharynx and larvnx are noted also in cases of pulmonary tuberculosis and sinusitis together The naso pharvnx contains pus or infected mucus not in frequently this is seen under the middle turbinate of the affected side but cannot be observed by anterior rhinoscopy The nose appears normal except for a pallid and thin mucous membrane. The orophary nx shows a network of blood yessels between which the mucous membrane presents a pale velvety swelling The larynx is pale the mucous membrane covering the arytenoids shows pallid thickening and the inter arytenoid space is diminished or absent The mucous membrane of the arytenoid region tends to form an oblong bar smaller than that seen in sinusitis without pulmonary tubercu losis and the forward prolongation is more marked. not infrequently overhanging the larynx. The mucous membrane of the trachea is thin and the rings are seen plainly. The tonsils are small and pale if enlargement has occurred it is generally noted in the lower pole

The author's interesting explanation of the interaction of the two conditions is as follows

Tubercle bacilli shut off from the general blood stream in mil ary tubercles produce toxins which passing into the g neral circulation cause antitoxins to be formed and an antitonic balance is produced Few antibacterial substances are produced and the tubercle bacilli conti. to live but not to multiply unless some change in their environ ment takes place Micro-organisms in the sinuses continue to multiply and secrete tonas which, be ing absorbed by the mucous membra e produce antitoxins and an antitoxic bals ce is produced The bacteria in the sinuses do not reach the blood stream hence few if any antibacterial substances are produced The presence of towns within the nasal passages produces a reaction within the mucous membrane which may remove the b cteria but the existence of a chronic si satis is evidence that the bacteria have not been removed, but that they have adapted themselves to their al ered environment in which process they generally become dimini hed

in virulence s long a the environ entis not sgain aftered

Any altereti n of environment tend to alter this virulence and if there is for any reason an increased at written of tox; also e that again t which the body I protected it umets n tools the antit sic lalin of that miero org rism lut al o that of the tuberculous in ctr n and a rect of the tule real 15 proc s is real. It is the ref re of taram int int stance t immuri e the tatt et to a high e grie again to the na al infects nand to gu ri again t the d sel I ment I micro re with a the siruses by tracking these where you if e with some artisert c f [r l gel actio s ch as ind f rm emul n In e n ral tatients with tul e cular citi lungs houll pe ated up ninir local anasthesia lestal en hit oringum iar hi s elsom the inhelate nof the angeth to are eate th pulm nary tuberculo s Ort M k ty M It

MOUTH

Marshall J A. Changes in Tooth Structs to Reaulting f in Del ci nt Diet. J to H 1 19 3 1 x2 6/3

Marhall trits the honge or gon the teeth of 1 militerary test to 1 finite pried falls ancals in official by the following in the standard substitution in the sta

There ultimated pit is a lift lightent in the 'las of mm' in spit in a fit feeth and sepect ly ni per fill lift in lift, but the care with a high a high and the meater with a lift in the lift in lift in

This F Dent I Impaction and Tile Septim Jim St. 31 4

He auther 1 that in H m j m i f awe for imposed it it oming all h beer at we for the conditional matter in the last in the las

I The pre neof an impact though he nat necessarily give rive to a title to the gest but conditions he as how much be refulls to hoto make a proper highest net proposes.

2 The serousness of the perstant is the remail of timp etclife the alratification trains to injury caused by their remail of me serious than the respectation.

NECK

Diggle F H Some Observation on Larynge-

Dest to we the hit ty of turneous relations or or the rot in lord my from 15% who had not my from 15% who had called method perstandor real grant locate and to the presenting the serious of corp. Itel 10 method had not seen to the corp. Itel 10 method had not seen to the corp. Itel 10 method had not seen to see the was set at the corp. The corp. The corp. Itel 10 method had not seen to oper and some 15% and 16% of the method had not seen to oper and some 15% and 16% of the method had not seen to be seen to the corp.

The nuth r series the lamph and the system of the largue bowing who the probability of me fact see in a later largue I malignance is the

It is see in a later larging I malignated in the trick of the halfite with a test of the trick o

the than I cartil to just before it prices the than hillm of the William B for k MD.

Nor L F J Carlin ma of the Larynt I was M J 2 3 3 1 3

The fit tiem of excert in the firmatily surgeal.

Income of a calcin man it is no accurate method of

I te miring it I mits a actually accision.

The to 1 ties a ges fared na anough mare that it may concert a relating being no allowing turn rints and fare a general marican ethors are attended in the following turn rints and the semi-attended maricaneth.

In the followingers, Novak empt a electroscopy.

lation By the means it is periff to the turn of mylet I a It terrse the destruction to I war in order to the max takes there. The method all up the cast llate sand I my hatter is the most take to be on the turn of and prevents must be above to the turn of and prevents must be above to the time to a is in the

usl or town the heavily or radium or both. The tech high of that is, as model far that the first veget in the second in least 18 for the second in least 18 for the second in the second

n I trins

R bert C W Pitfall in the Man sement of Tt yould Di rders J M d t Cert 10 J

1 R H LIFTE

The free numer of there is decayed as a public he life guesting is perindual lata of cat that the decay we have be per nice by the administration in our curle life.

In a many s fg at line; two-edged will life r at sag nn s arreld stult hould be m t i lit min whither the th a lit ulapoon at r rhyper (t). When se says to have life for min the min areful follow up access in usib ag en let a q 15 en through the entered acts. It the pre-nature that the mine lot be willowed in general seen in a slope the little be willowed in generate en in a slope.

CHR SW FA DDS

lescent g rls In cases of adenoma and toxic cases it is distinctly contra indicated and in cases of colloid goiter in adult I fe it does not reduce the mass

Enlargement of the thyroid gland is never harm less although it is considered phy iological when it is associated with puberty and pregnancy accumu lating evidence strongly indicates that these are the cases in which trouble is experienced later in life The concern of the physician should be to aid by todine therapy the establishment of complete resolution in the gland after the period of physio logical stimulation has passed. In the operative treatment of permanently established hypertrophy whether manifest as in cases of adenoma or large colloid goiter or more or less concealed as in many of the toxic cases gland physiology must be taken into account When the indication for surgical t eatment is pres ure the ideal operation is one which reduces the gland mass to that compatible with comfort and the best cosmetic result. When the indication is hyperplasia and hyper ecretion it is the procedure which destroys a sufficient part of the gland tissue to cope adequately with the excessive supply of the roun

The best results are obtained when all foci of

infection are given proper care Since the introduction of local anæsthesia acute postoperative hyperthyroidi m has been becomi g rare Polar ligations the many stage operation thor ough study of each case and the avoidance of hasty operation with inadequate ob ervation and prepara tion will soon lower this complication to the irre ducible minimum

In conclu ion the author states that many cases are medical and some are benefite I and a few cured by the \ ray and radium

ARTHUR L SHEE FLEE M D

Hubb rd R S and Webb C W Acetone in the Exp red Air of Golter Pati nts A Few De term nations of the Changes in Blood Acetone D ring Thyroid Operati ns Study II The Thyr id Cifi II B II Clit 5p g N Yok 1923 17 1 6

The authors estimate i the acctone of the breath of gotter patients by a method desc ibed by one of them in an earlier paper. They found that in a large percentage of the cases there was an increased excretion of acetone in the expired air before ope a tion but that in general patients who e breath hall an acetone odor were the ones tested

All of the case studied shoved increased acetone excret on after operation

Two of four cases tested showed an increase in the acetone in the blood after operation and one case a high acetonæmia before operation EDWIN A BAUMGA NER M D

Hetlr A E Pel c Finding in 100 Cas s of Toxic Golter 1 J S 8 923 x 11 74

The author noted the state of the pelvic o gans in too cases of thyro d enla gem nt. He excluded

young girls women at the menopause cases of exophthalmic goiter and markedly toxic adenoma and all cases admitted for operation. The group included for the most part chincally mild cases in which the pulse varied between 90 and 130 the weight los and thyroid enlargement were slight

and nervousness was moderate In thirteen of the 100 cases the pelvic functions were accounted normal. In the remainder the following conditions were found given in the order of their frequency dysmenorrhoxa displacement dys menorrhora with displacement displacement with cervical laceration and erosion metrorrhams scanty flow myomata evidence of a pelvic operation and fixed uterus Severe thyrotoxicosis i not com monly attended by pelvic disturbance The meta bolic rate was not definitely high in any of the cases Women with pelvic disturbances and curable anatomical lesions should be operated upon. Those having small goiters should be given todides and bromides under this treatment the dysmenorrhoga will be apt to disappear unless there is a complicat ing anatomical lesion

FRANCIS T H DOUBLER M D

Sielmann R Roentgen Therapy in Exophthalmic Golter (R entg nth pie bei Based) Stah 923 450 In 328 cases of exophthalmic goiter roentgen ther

apy was used with good results. Of these thirty sit (1 per cent) vere operated upon unsuccessfully previous to irradiation. After the irradiation 50 S per cent of the patients were without symptoms 44 5 per cent were benefited and 5 per cent were not benefited

The author gives one half to one third of a skin erythema dose anteriorly with a 3 mm aluminum filter In the cases of sensitive patients he dis tributes this dose over to successive days

The region of the thymus is always irradiated but the parotid region is protected as much as possible. The treatment is repeated after a lapse of three and a half to four weeks Generally four or five irradiations are sufficient and more than ten are inadvisable

Acute and subacute cases react the best particu larly those of young persons in older persons the condition a more apt to be refractory. The pa tient need not be confined to the bed for the treat ments Intoxication from the irradiation never occurs. The nervous symptoms disappear first and the exophthalmos last TOBLER (Z)

Bower J O and Clark J H A Preliminary R port of the Action of Buried Radium on Dis ased Thyroids in Man im J Reig I

From experiments on dogs in v hich radium needles we e buried in the thyroid gland the authors con clude that the normal thyroid is very resistant to radium rays After determining that buried radium viel is about sixteen times as much irradiation as the

ususl surface applicat in they empliyed in three cases larger discs than ar or linar ly gi en

In one case of carcinoma ressuming by 4 by 2 and 12 mgm needless were tuned in the mass and 12 mgm were apple featernally or effer mass for forty-eight hours. The ewe is later the mass are fueed by one half at this time two one Liswere again in cited for tweety of the mours. At the end of three mo that the mass respect to a small amount.

of in lucation all at the area of first 1 in In a second case area in the larging with the woughted up we found to be a squarmous cell care to man. The metable rate was 4+44. Mere reflection of the muscles eight 12 girds in 21 um e. Pis were inserted and 11 ff in the thy it glant twent hours 3x we ke later the mis was reloced 14 metables in the mistale in was 4+4 kg in radium was april 1 ff energy eight to the first mistale in was 4+4 kg in radium was april 1 ff energy eight mistale from the first mistale in membal art between the first mistale in the mistale in membal art burguist mistale in the first the state of that it them is been a last first first the total that the total is need as a film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it that it total is need a last film gattern to take it in the gattern to tak

The third case a case of a firmat us that I was treated to embed ingleight needles in the exposed glad for twe to four hours. For mother

later the jatic trialing can complice recovers.

The authors corolled that I go loss fraction are borne will be the trivial that the frection of radium needles into the glassiases rate the

injection of boiling water quinine utra or poisr least; n and that rad um is indicated in poor operative risks. They ad use comparatively large does of lunged radium.

Tyler & Fr Careln ma of Lingual Theroid with M t states in the Lungs. J Fal of 19 11 15

Forty I are eases of lingual the rolds have been reperted in the Literature. These are due to incomlete descent of the thyr. I finite embryoliz cald of I fin into our minutes of thir. I tissual left along the thirty lissual duct of might does in a They are also use "I it mean one frequent in the female that the most."

The thir I tisu usuall les in the post reports n of the t ness at the junctu. I the buccal and pharems I mucous membranes

The symptoms a elecal and due top essure. The

because it is the f t in which mal mant that ges were found.

Kintgen grams shine I'm tastatic areas in both I ngs. Kidum an I \ ras trestments wer given, the latter over a period of two an I one hally ris.

Au no re ealed a n croti area at the primary a te and multiple in tas sea thre hout both I am and in the me last nal glands.

t store if the one MD

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NEDVES

The Clinical Manifestations of Holmes G M Cerebral Tumors Gl sr w M J 1923 n 5 XVIII

The subject as here presented should appeal principally to the general practitioner. The term tumor is used in its wide application to include new growths cysts chronic abscesses local collections of fluid etc Attention is brought to bear upon the pathological processes involved in brain tumor symptoms

The pathogenesis of increased intracranial pressure is explained in some cases simply by the bulk of the tumor alone In other cases cedema and circulatory disturbances around the tumor are responsible A third factor is the occurrence of either internal or external hydrocephalus which is a damming back of the cerebrospinal fluid either within the ventricles -- e compression of the foramen of Magend etc -or on the surface of the brain from obstruction in the subarachnoid or perivascular spaces Still an other possible factor is a blocking of the foramen mag num by the tumor or by backward displacement of the bran stem and cerebellum with consequent failu e of the spinal fluid to escape from the skull

Of the general symptoms headache is given first place in this consideration. This is characterized usually by a throbbing or bursting pain persisting for long periods and located in the forehead or behind the eyes except in cases of extra and intra cerebellar tumors when it is usually occipital Superficial tumors may cause localized pain symptom next in importance to headache i vomiting whi h occurs in the early morning hours and is invariably accompanied by headache and may or may not be accompanied by nausea The most valuable sign is optic neuritis or papillordema but unfortunately this is absent especially in the early stages and in cases of tumor of the pons and basal gangha and rarely in those of tumor of the cerebellum and midbrain Occas onally however a case may run its entire course without exhibiting any of the symptoms mentioned either becau e the tumor grows very slowly and is so situated that it does not impede the circulation of blood lymph or cerebrospinal fluid or it is of the infiltrating type and destroys the brain tissue as it invades it causing little or no increase in bulk. Other much more rare and less dependable general symptoms are vertigo a slow pulse rate and such mental symptoms as duliness lethargy and character change

The local symptoms are those which depend on the position of the tumor and the di turb nees of function caused by compress on or invasion of the

brain Involvement of the precentral convolution may bring about localized paresis palsy or localized spasms of the opposite side of the body Lesions of the parietal lobe cause subjective or objective sensory disturbances if the growth is in the occidital lobe or the vicinity of the optic tracts or chiasm it causes disturbances in the visual field. Involvement of the frontal lobes frequently causes characteristic degenerative personality changes However since these symptoms are not peculiarly characteristic of neoplastic lesions the course of their development is of prime importance in the differential diagnosis

The slowness of tumor growth and extension with involvement of the neighboring regions brings about the gradual development of local symptoms with out periods of diminished severity over months and years this fact serving to differentiate tumors from most vascular lesions uramia and patches of rapidly developing inflammation. A slowly propressive course is to be observed all o in certain degenerative diseases of the brain and in progressive thromboses but the more widely spread, usually bilateral distribution of the symptoms or signs of arteriosclerosis serve to eliminate the diagnosis of tumor The presence of strutative phenomena such as jacksonian epileptiform seizures visual phenomena etc. though occurring in cases of traumatic or inflam matory cortical lesions suggests brain tumor if there are also signs of a slowly progressing cerebral leston

Unfortunately there are many exceptions to the rule of slow progression of symptoms in cases of tumor Sudden acute or subacute exacerbations of local and general symptoms may be brought about by circulatory disturbances interference with the flow of cerebrospinal fluid inflammation and cedema about a tumor and hæmorrhage into or about the growth Certain tumors are more apt to have an irregular and intermittent course on account of central softening and cavitation with consequent reduction in bulk or if the cavity assumes the character of a retention cyst an increase in bulk An acute onset with symptoms of apoplexy has been noted after hamorrhage into a tumor of the soft infiltrating type which had not increased intracranial pressure sufficiently nor caused sufficient damage of important structures to produce general or local symptoms

Diseases to be differentiated from brain tumor are chronic degenerative affections of the brain certain renal diseases cerebral arteriosclerosis gen eral paralysis of the insane primary hydrocephalus and traumatic and inflammatory les ons

Of the accessory methods of diagnosis roent genography can reveal only calcified or osseous tu mors Ventriculography cannot be used without dis crimination Spinal puncture is of little value except to reveal high cerebrospinal fluid pressure and occa sionally tumor cells and may cause rapid death if withdrawing the fluid results in a sudden alteration in the pressure on the bulb and cerebellum

The next process after early dagnoss is localize toon. When the size of the lesion has been determined the case is ready for the surgeon. It must be borne in much that although the decompression operation alone is a palliative measure it proparatives the chances of subsequent localization of the growth because it makes it difficult to dende whether than the chances of the decompression injury alteration in the tension relations within the skull properties of the composition of the co

Wint mitz A New r Methods in the Surgical Treatment of Tumors of the Brain and Spinal Cord (Neu re Erlah ungen 1 d r ch urg schen Behandlu gd r H rn u d Ru ckenmarkst mo n) Golfydt 1 923 4 56 a 466

Eighty seven cases were operated upon

Cerebr I growths were discovered in thirty-one cases The growth was found at the site of locali zation twenty times (64 per cent) Cheyne Stokes breathing was present in 50 per cent choked disk in 60 per cent and jacksonian epilep y in 80 per cent Of the twenty tumors found eighteen were in the motor area v8 per cent of the total number of cere bral lobe tumors operated upon Sixty five per cent we e easily operable Ghofibromata or ghosarcomata were present in 65 per cent of the cases tub roles in 15 per cent cysts in 15 per cent and cysticerci in 5 per cent. The largest growths weighed 120 140 and 160 gm Six (30 per cent) of these twenty patients d ed four (66 per cent) were either poor operati e ricks or inoperable. Of the patients who were operable two (33 per cent) died. The causes of death were meningitis in 60 per cent of the cases shock in to per cent and softening prolapse and pneumonia in 33 per cent

In eleven cases the growth was not found where expected because it hy slightly deeper (one case) because it was very deep (four cases) because it was very deeper (four cases) because it was very deep (four cases) and (four cases

growth in metteen case: Cushing a operation was done and the growth was found in twelve cases (63 per cent). The mortality was 83 pt cent. The symptoms of beathche and cholded dask were present in 93 per cent and in the cases in which the tumor was not found in too per cent. Eighty there per cent were tumors of the auditory nerve and 16 per cent were nutracrebellar growth.

The author always operates in two stages. After the first stage of the operation the mortality was 33 per cent In the fatal cases in which a growth was found the cause of death was shock in 70 per cent of those in which no tumor was found the cause of death was inflammation of the men ages in 66 per cent. In two cases Winternitz attempted to complete the operation in one stage but both patients died of shock.

Of the patients in whom no tumor was found one was benefited in four of the others the growth was found at autopsy once in the pedunculus crebn, once in the thaliamus and twice in the opposite frontal lobe. In one case hydrocephalus was present. The tumor was found and successfully removed in the cases (if oper cent). One of these patients has no continue it known eight years. Regard og the other nothure it known.

3 The hypophysis was the site of the tumor in two cases Schlosser's operation was done both patients died. One tumor was an echnococcus

cyst and one a malgnant tumor of metastatic origin. When the localization of the growth was not possible (five cases) the author performed the sub-temporal trephnation of Cushing with puncture. The results were poor

4 Nineteen cases of tumor of the spinal cord were operated upon No tumor was found in thre The clinical diagnosis therefore coincided in 78 p r cent of the cases Posterior nerve root pain was present in 90 per cent los of sensation in 95 per cent and motor disturba ce in og per cent. In 63 p r cent of the cases the tumor was extr medullary and in 21 per cent intramedullary Compression by the vertebræ was di covered in 15 per cent. Fifty per cent of the tumors were fibromata 20 per cent sarcomata to per cent of luetic origin and to per cent spondylitic exostoses Of the cases in which the growth was not found two were sclerosis polyin sulars and two syphilis of the cauda equina. Of the fifteen patients with tumors four (26 per cent) died of meningitis and decubitus Seventy three per cent of the tumo a were in the dorsal region 21 per cent in the lumbosacral and 6 per cent in the cervical

Local anæsthesis was used almost exclusively in cases of tumors of the posterior cranni loss at the first stage was performed under local anæsthesis and the second under general. Tumors of the spund cord were all operated upo; under general anæsthesis Hamornhage was carefully arrest d by the method of Hendenbarn bleeding from the dipole was sealed with was by Honshey a method. The was sealed with was by Honshey a method that the stage per attention and the stage per attention and the stage per attention form a first than the done in one stage. The author does not suture the dura or perform a plastic operation. He always care fully sutures the dural so of the spiral cord (the spiral cord).

VON LO MEYER (Z)

Rainey W R and Alford L B Septic Meningitis

The autho s report two cases of septic meningitis following trauma to the skull which were treated by continuous spinal drainage. In one a laminer tomy was performed with the institution of drainage and recovery resulted. In the other a catheter was inserted into the spinal subarachnoid space through a trocar. This case was fatal.

It is slict that the introduction of specific or nonspecific antiserum into the parameter of the conpression of the control of the conpression of the control of the control

SPINAL CORD AND ITS COVERINGS

McVeigh J F Exper mental Cord Crushes with Especial Reference to the Mechanical Factors Involved and Subsequent Changes in the Areas of the Cord Affected A ch S g vg 3 vu 573

In complete spinal cord leasons there is a mixture of cord substance and blood at the site of the injury and the ends of the cord are separated for a short distance. If the pulp like mixture is forced into the segments above and below the leason it causes an increase in the intrapial pressure. Such increased pressure is reheved either by rupture of the pia mater or by the extension of the traumatized tissue up and down the cord. When the pia mater eremains undex and the local pressure is relieved a bloody notes extensia after an interval and fills the gap mean extensial after an interval and fills the gap mean extensial after an interval and fills the gap ressure persuits as an uncorrected fracture dislocation of the vertebral column the return of this pulp is impossible.

Because of a weaker anatomical structure the ventral part of the dorsal white columns and that

part of the central gray matter which is dorsal to the central canal are the steas of the spinal cord most frequently involved in complete lesions. In addition the area of cord involved in the pulp invasion tends to be larger above the level of the injury in the lower cervical and upper dorsal regions and consequently produces more damage in such regions. Liquefaction of the pulp and the area of the cord involved in the debris in complete lesions begins complete at the end of two weeks. This accounts for the formation of cavities and symptoms above the level of the lesion and for the cavity formation alone below it in many old cases of fracture of the spinal column.

In partial lesions of the spinal cord, the pressure is usually not sufficient to convert the cord at the site of the lesion into a pulpy mass and the trauma tized tissue is not under sufficient pressure to be forced very far up or down the spinal cord However the portion of the adjacent cord which is invaded is usually an area similar to that invaded in complete lesions (Edema and hamorrhage are the most important sequelar to be dealt with Small scattered hamorrhages which in themselves are not sufficiently extensive to cause serious injury are most often and attacks principally the dorsal white columns but the lateral and anterior columns may be affected as well As a result of the ordema the intrapial pressure is increased but operative procedures designed to check the formation of cedema have no effect and probably cause further destruction of the cord substance Therefore the indication is to relieve the external pressure and leave the dura mater intact LOYAL E DAVIS M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST Serohæmorrhaule or Hæmorrhagie D scharge

Miller E M and Lewis D The Significance of a

I om the Nippl J Am M Ass 19 3 laxu 1651 The authors discuss the significance of a serohæmorrhagic or hæmorrhagic discharge from the supple in an article illustrated with photographs of patients and specimens and photomicrographs. The

findings in their cases are summarized as follows I About the same percentage of benign and malignan tumors were as ociated with a discharge from the mpole

2 About half of the benign tumors causing a discharge were papillomatous occurring either as duct papillomata or as papillary ingrowths in chronic cystic mastitis

3 In seventeen of the forty cases the discharge was blood and in ten of these the tumor was malig nant. In eleven cases the discharge was seroham orrhag c and in eight of these the tumor was ma lignant

In twenty two cases the discharge was present before the tumor appeared Eighty per cent of these

were cases of malignant growths 5 In nineteen cases the tumor occupied the region immediately about the nipple and in about

two-thirds of these it was malignant It therefore appears that a serohamorrhagic or hæmorrhagic discharge from the nipple may be associated with e ther a benign or a malignant lesion The outstanding facts are that the character of the d. charge va ies considerably with the same type of le ion and the same type of discharge may be associated with lesions of considerably different character The amount color odor and consistency of the discharge depend not only on the pathologic les on from which it originates but also on the degr e to which the discha ge is altered b fore it reaches the sarf ce of the noble. An eroded vessel will always bleed whether it is at the tip of a ben gn papilloma or adjacent to or within a papillary carci noma. If the tumor f om which the hæmorrhage occurs is near the nipple the blood will appear on the surface but little changed. If the bleeding arises from a papilloma or carcinoma in the wall of a cyst or a dilated milk du t lying d en in the breast the blood becomes degenerated intimately mixed with the products of cellular disintegration and greatly changed in appearance

The presence of a discha ge from the nipple in a non lactating breast is evidence of a pathological lesson but the diagnos s must be mad from the usual s gns and symptoms of benign and malignant lesions. The discharge cannot be regarded as of any great significance in the differential diagnosis

When a serohæmorrhagic discharge occurs and no tumor can be palpated the lesion is in all probability a small benign intracanalicular papilloma deep in the substance of the breast This the author believes should be removed. If the arcola is partially reflected after the portion of the breast giving rise to the discharge on pressure has been determined. a milk duct containing a blood clot will usually be found and the portion of the breast contiguous to it may be resected. RALPH B BETTWAY MD

Walther H E Roentgen Ray Tre tment Cancer of the Br ast (D R e tge behandlu g des Brutk ebses) Schw md 11 h ch 1913 In 747

Sixty one statistical tables of 9000 cases of mammaty carcinoma treated during the period from 18gr to 1g2r show a cure in 3r 9 per cent of those treated solely by operation. A case was regarded as cured if no recurrence had developed by the end of three years Even today only one third of cases of cancer of the breast are cured Since further prog ress along operative lines seems hardly probable the desired results can be expected only from earlier diagnosis and irradiation

The reports on the results of irrad ation follo ing operation are contradictory The effect of the roent gen rays depends upon their absorption by the cells It is po sible that their point of attack is the atom The effect is directly p oportional to the amount absorb d and the specific sensitivity of the irradi ted The sens tivity of the cells is dependent tissue upon metabolism and mitosis. Their collo dal condition is probably also of importance colloids of tumors have a very high dispersion rate The roentgen rays have the ability to convert colloids of hi h dispers on into those of low dis persion but in carcinoma this effect is not sufficient to cause the death of the cells The dose necessary to destroy cancer cells is usually about 110 per cent of the skin erythema dose but certain types of carcinoma require more

Walther reports ninety cases The incidence of the condition on the 1ght and left sides was prac t cally the same. Her dity played a rôle only except onally Irrad ation is a palliat ve me sure of value in inoperable ul erating ca cinoma and in operable cases in which other conditions contra indicate operation or operation is refused. A permanent cu e was never effected. Of fifty two cases operated upon and irradi ted afterward th re were recurren es within a year in 21 per cent. In twenty two cases the ope at on was performed more than three years Of these patients seventeen (77 per cent) lived more than three years after the operation This is a much better result than the 31 9 per cent

of permanent cures following purely operative treatment Therefore the therapy of choice in cancer of the breast is operation with subsequent

irradiation

Simple irradiation is not recommended except in the unusual cases in which operation is contra in dicated The entire carcinoma mass should be sat urated with the dose This; often d flicult because of the rapid decrease in the effectiveness of the rays with the increase in depth of the tissue. In the prophylactic irradiation following operation Walther exposes four fields including the supraclavicular and axillary chains of lymph nodes and repeats this series twice in the course of the first year following the operation In the interval he administers arsenic. In the treatment of recurrences or metas tases this scheme must be altered to meet the re quirements of the particular case

Injuries are very rare. The author saw one burn due to faulty technique and one case in which in creased rapidity of growth followed the irradiation An increase in metastases following roentgen ray KOENIG (Z) irradiation has not been proved

TRACHEA LUNGS AND PLEURA

Spasokukotzki S I The D agnosis and Treatment of Thor cic Tumors (Z Fgd D gnost k ud Th ped Br thochling hwulte) l h dld R s Ch Kg P t ogrd 923

Four roentgenograms are shown including two cases of echinococcus d sease of the lungs one ca e of endothelioms of the lung and one case of chondro sarcoma of the lung. The tumors illustrated were as large as a fit. The objective symptoms were insignificant. The diagnosis was difficult as the roentgenograms were not al vavs de is ve

A broad incision was made with tempor ry re section of one to two ribs so that use could be made of the Lotsch apparatus for pneumothorax postoperative course was exceedingly good. In no case were there any adhesions between the visceral

and costal pleura

In the discussion HAGENTORN of Pet ograd stated that he uses the flap resecting two ribs in opening the thoracic ca ity. The reflection of the flap to the sternum makes it possible to convert an open pneumotherax into a closed one

FABRIKANT of Cha kow has found that the danger of bilateral pneumothorax is by no means as great as is assumed. It is dangerous to displace the medias

tinum and the large blood vessels

OPPE of Petrograd repo ted that in an operation for sarcoma of the sternum both pleural cavities were

opened the right relati ely videly. The wo nd was cl sed and recovery was smooth. The smooth course of the operation and the disease was due to the use of Brauer's apparatus

CREKOW of P trograd sa d that unilate al pneu mothorax may be dangerou, not only because of the compression of the lung but chiefly because of the displacement of the mediastinum and the

kinking of the blood vessels Bilateral pneumothorax is less dangerous Such a displacement of the medias tinum may be avoided even in unilateral pneumothorax by placing the patient on the diseased side and elevating the lung into the wound

GRECORY (Z)

CESOPHAGUS AND MEDIASTINUM

Roysing T Antethoracal (Esophagoplasty and a New Method (Ueb anteth akale O s phagopl stik u d ueber eine neue Methode) Ho p Td 1923 lxvi 1

After discussing the methods of antethoracal esophagoplasty used up to the present time Rov sing describes his new method with the aid of a case history The case was that of a 34 year-old noman who had been subjected to a gastrostomy because of an impermeable stricture of the osopha gus due to lye. In the first part of the operation a long rubber tube the thickness of the thumb was introduced through the gastric fistula so that it extended upward as far as the neck. To the right and left two parallel incisions in the skin were carried downward from the neck and curved slightly at about the level of the gastric fistula so that they met at a point just a little above the level of the umbilicus. The skin flaps thus formed were then freed and united over the rubber tube with catgut This having been done the mobilized edges of the incis ons were sutured with aluminum bronze the lower end being left open

In the second stage of the operation performed six weeks later the cervical portion of the œsophagus was dissected out and divided the oral stump was united with the freshened tube of skin and the lower end as drawn through an opening made in the neck at the side of the sternocleidomastoid muscle At the same time the lower end of the skin tube was permanently closed

In the third stage of the operation the resulting defects were covered with skin flaps

In a fourth stage three months later the wound

was freshened a defect at the gastric fi tula was covered with a pedunculated flap and a Pezzer catheter was inserted into the stomach temporarily to favor healing At the end of four weeks the Pezzer catheter was

removed and the lower end of the skin tube was closed permanently Eight days later the patient swallowed fluid food and tod v fiteen months late is entirely cured and able to eat any kind of food DRAUDT (Z)

Case J_T The Technique of Rad at on Therapy of Csophageal Carcinoma Am J R 1g not 10 3 x 850

As the use of the œsophagoscope is so often im possible or distressing to the patient the \ ray examination is rel ed upon to determine the extent and character of the lesion Antispasmodics are used routinely to determine the amount of deformity due to smam. An equally distrib ted homogeneous radiati n is difficult to obtain

Las prefers doing a gestreatomy first. Ten days later h. passet a thread by mouth an i recovers it through the go trostomy opening. Four lays later h. applies the ratum unit i fluorescopic to tro!

usi g the thread as a guide.

When you fill the applicator is made ut of a
50 a 100 and a 50-mgm capture arranged in

far or and filter I through a min of copyer. The intra resp hageal freatment is combined with leg a verticen treatment through four y rials of entry. An attempt is mane to a label treat all the necessary raw thon lump the first attack. If this is usue a full further a burn treatment if given a deput that it have days like a new threatment at a size reasonable and the reas

exact clat mo thly int reals.
The a lear tages of the g strontone the leveth 1

The a lyar tages of the g stroutoes the freeth :

I It permits arls and inquate feeding.
It leaves a profest using the treatment.
It is all tax is the accurate placement of the radium.
Con axes II in Mile.

MISCELLATEOUS

Vincent P. Errors in th. Di gnosi of for ign Bodies in th. Nir Pa. gre. i.e. J. Rarely in 1911 2 908

Three cases are cited to show errors in intermetation of coentgen graphs, shadows for precioi for elember of each the are on a cere

Case? The patient we as man ag 1 st years. When he was 5 years, life a privated accountment in ofunknowner exposition, big months later preum na lexelogie! Two and one billy are later one error error error the right chest of v. hoped and we lizal of Since.

of court is that raising an ounce of purious blood timed sputtum with each pursyive. This cal examination revealed delive I hagers a 1 agree of brothes tax state I use of the night lag. They ray 1 agrons what cell i buttons in being's recent I a furned that lim to the easy writing that their stitutum in the right dress of approximate. In a state of the reserve that the state of the changes can be a at that time or at a section I to changes can be

then the patient has had thee or four pass your

at that time of at a second it to choocopy easy mit then Repeated V are examinates and a silver the latation have not about the balk we never to take fast plate. It, suggested that the balk was as supdomether to be the silver to the balk of up domether. It is not the electric mit the too past of the bit teen may be a remained below the stricture or that it bad become completely was a gratef.

Last a They tent was agiolay and was trught observed agrees were before however and of twell wedge as were before how to the how that The first and the state consists and het a day come of proposition that main how the Theorem to Array as the Mayo Chale to do to reveal aboring body. It was then he red that at they revous Naya timination by partial the deep covered in that we deal it is greatly that the pia was either in the twelf or the tab.

Catt. The case we that of a mary agod a great who he was seen a stape love during report of the first property of the first property of the first property of the first property of the first probability as a first of the first property of a darrow as first probability of the first property of the first prope

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Deutsch I Operations for Inguinal Hernia In Infancy (B t ege zur Hernia gu 1s Opera tiones im kindes ite) Gjøzjár at 923 431

In the last ten years 780 hernue in 639 children have been operated upon on the author's service. Three hundred and thirty seven (52 75 per cent) were on the right side and 161 (25 19 per cent) on the left. In 141 cases (22 06 per cent) the condition was hilateral.

Fig. hundred and seventy nine of the patients (go for per cent) were boys. One hundred and forty three of the patients (22 32 per cent) were between 1 and 2 years of age and eighty nine (13 02 per cent) between 2 and 3 years. Inguinal herma was ten times as frequent in boys as in guits (503 50). This is in agreement with all foreign statistics. In both sexes the herma was found more frequently on

the right than the left side

Twenty nine of the hermin were incarcerated twenty eight of these were in boys and twenty three were on the right side. All healed well after opera into Cryptorchidism was found in forty cases (6 9 per cent of the boys.) In twenty-eight it was on the right side and in one case it was bilateral. In twenty cases (3 45 per cent of the boys.) a hydrocele was found

In twenty two cases (3.41 per cent) the appendix was discovered in the herital sac one of these cases was that of a gri and one was a case of incarcerated herita. Appendectomy was done. In two cases the ovary and tube were found in the sac and in one case the appendix and bladder.

Tuberculosis of the hernial sac was found in two cases ectopia testis in two cases of bilateral hernia epispadas in one case and phimosis in two In eight cases (those of seven boys and one girl) a right inguinal hernia was associated with an umbilical hernia

The average length of time required for healing was eight days. Sixth absocsso occurred in three cases. One patient died eighteen hours after the operation from cardac failure a mortality of o 15 per cent. The final result is known in 350 cases. Only two boys had recurrences: The author concludes that inguinal herma should be operated upon a cardy as possible.

GASTRO INTESTINAL TRACT

Moody R O Van Nuys R G nd Chamb rlain
W E The Postion of the Stom ch Li er
and Col n J Am M 1 931 924

A careful roentgenological examination was made of 600 healthy young adults an equal number of

men and women most of them students at the University of California

Preliminary determinations were made of those physical characteristics which might modify the position of the stomach liver and colon. These determinations included weight height body di ameters intercostal angle depth of the lumbar curve and strength of the abdominal muscles.

The most caudal portion of the greater and lesser curvatures and the pyloris was measured and tabulated with reference to the interliac line. Some cases afforded the opportunity to observe the effect of increased development of the abdominal muscles

and of loss or gain in weight

If was found that the long stomach commonly traching from a toy on cashed to the intertuical her and often into the true pelvis occurred in 80 f per cent of this group. This low position of the stomach was unassociated with gastro intestinal disturbances and was regarded as normal. The strent, tho the abdomnal muscles and loss or gun in we in that ditte or no influence on the position of the stomach

The most caudal part of the liver was found to be caudad to the interlise line in 53 2 per cent of the

men and 41 2 per cent of the women

The transverse colon was always caudad to the stomach and frequently in the true pelvis. This position was not associated with any disturbances. The conclusion drawn is that the use of the terms

The conclusion drawn is that the use of the terms gastroptosis hepatoptosis and coloptosis is rarely justified Charles H Heacock M D

Gorham F D The Factor of Bilution in Gastric Analysis J Am M A 19 3 Ixxx 738

The author describes a method of correcting the total acidity by taking into account the variable factor of dilution

To 400 c cm of water which is a part of the test meal is added exactly i ccm of a solution of phenolsulphonephthalein The total acidity is ex pressed in terms of the number of cubic centimeters of tenth normal sodium hydroxide required to neutralize 100 c cm of gastric content a few drops of phenolphthalein being added if there is not enough phenolsulphonephthalem present to act as an indicator To determine the dye concentration 2 c cm of a filtrate of the sample are placed in a cup of the Hellige colorimeter and made alkaline by the addition of two or three drops of 40 p r cent sodi um hydroride and the color is compared against a standard solution of phenolsulphonephthalein of the original concentration taken with the test meal (400 c cm of water containing t c cm of phenolsulphonephthalein solution and 3 drops of 40 per cent sodium hydroxide) The corrected total ac dity is calculated by the use of the formula

58 (activity as ordinarily obtained) × 100 = 103

100-44 (percentage of dilution) From a study of normal persons and of patients with gastro intestinal symptoms the author con clades that the emptying rate of the stomach for fluids is variable in different persons without gastro intestinal symptoms. When 400 c cm of fluid are given as part of a test meal it may act as a diluent of the gastric juice for more than two hours. In fractional gastric analysis variations in dilution of the successive fifteen minute samples by the fluid of the test meal are of fundamental importance in determining the height of acidity and the charge ter of the so called secretory curve The variable d lution of the gastric juice by the fluid taken with the test meal is a factor of importance in determining the acidity as ordinarily obtained in the single aspirat on or one hour method of gastric analys's

Nordm nn E Gastric and Duodenal Uters (U be d s Mag n u d Zw elifin rd rmgeschwu) 1r h f kl Chi 29 3 x v 92

ALTER H NADLER MD

The author reports his experience in 180 operations for gastric and duodenal view. These lesions are most common in persons with a nervous disposition but in from 5 to 10 per cent of the cases no nervous basis is apparent. If must be assumed that several condition are responsible 1 r the development of gastric ulier and that the lesion has a prediction of the series are not set to the condition are season that storaged the following the series of the series of

Comparate ely often duodenal ulcer is found associated with gall bladder disease and in many such cases it is the primary condition

Cases are di ided according to the location and the form of the uler. The author distinguishes ulcer of the pilorus ulcer of the lesser curvature duodenal ulcer and ulcer of the lundus of the stom ach or greater curvature. According to lorm ulcers are classified into (;) those in the first st ge associated with christicities ubjective symptoms and harmon tipe but with negative chinical ind x-ray findings and (;) those in the late stages with diffesions to ne gliboring organs and perforat on The ulcers in the late stage s which a e found most often in private cases h ve the best surgical progno

An important d agnostic sign is the presence of blood in the faces (rope reent of ca e). In some cases a differential diagnos s between ulter of the stomach and ulter of the duodenum is impossible but in ill cases of duodenal ulter periodicity of the attacks is noted. An old ulter may b present even when the V my picture is negative. Hunger pain occurs also in cases of gastric ul er

In young girls or women of a nervous type laparot omy shoul l be performed only when the findings are positive as in such cas s the symptoms are often functional. The choice of operation must depend upon the findings. Resection of the ulcer is des rable in cases of high ulcers transverse resection is often

best If no ulcer is found in the stomach or duode num the author examines the g ll bladder and appen dix and removes them if necessary

In cases of callous pylones after curranous as rulal out with certainty if there is no mention of near by tassies if the less on is most able and if no harmonic ways as a course in such cases the performance of the posterior gastro-enterostomy. In case of the detail under the results of gastro-enterostomy will take the sound under the results of gastro-enterostomy will call the present and a second Isparotomy must be done if internal and such cases and the present and a second Isparotomy must be done if internal treatment is not successful.

Smithles F Observations upon the Nature D 22 nosis and Clinical Managem at Coastric Ulcer with Suggestions for a Rational Regimen of Treatment Am J V S 19 3 lavi, 78:

Smithies summarizes what appeared clinicall to be the ethological factors associated with 522 histologically proved chronic gastric ulcers. This summary is as follows.

Co d son		r	٠,
Acute and chronic infections	173	33	7
Art moscle osis with vascular hyper			
ten ian	50	10	7
Arteriosclerosis without vascular hyper			
tension	21	4	٥
Visceral hypertonia or splanchnic hy			
perfunction	68	13	0
Chronic general attemia (so-called			
chiorata)	61	11 7	3
Syphilis	41	7	8
Visceral hypotonia (vagus of splanch			
nı hypofunct on	27	5	
Postoperative conditions	27	5 5 4	2
I dustrial intoxication	22	4	
Metabolic dysfunction (there d supra			
renal etc)	18	3	4

It is evident that through a me system c disturb ance which is followed by local dysinction a point of lowered res at nee is established in the mucous membrane and the normal gastire physiology it a causes an abnormal tissue change. Peps a and hydrochloric and attack the inert gastire relineroes a results and an uleer 1 for med.

Trauma

Fully 85 per cent of all gastre ulers occu in the pylorus the antum and along the dustal fout fifths of the les er curvature. The majority of oppure ulers over in that part of the gat which has the greatest circulate; muscular and ne rological activity and the fewest in the parts which are fixed and serve as food free ptacles or pepsin-secting tubula glands.

According to Deaver fewer than one hill of p rsons who are being treated non surgically for g stric ulcer actually have a gratic ulcer

True peptic ulcer is uncommon before the age of 30 years All foci of infection must be cleared up Tyo negative Wassermann tests are essential to warrant any treatment which excludes antiluetic therapy Except in cases of luetic ulcers causing marked gastric deformity little hope of permanent relief is offered by medical measures. In cases of callous ulcer intense pain frequent hamorrhage perforation and the danger of malignant change demand operative treatment

Smithies gives an outline of non surgical manage ment This includes

I Physical and mental rest for from one to three weeks

2 Physiological rest of the affected part Food by mouth irritating drugs gastric la age and frequent abdominal examinations should be avoided 3 Lo al applications to the abdomen Painful spasms may be pre ented by the application of heat

4 Abstinence from food by mouth for from three to seven days

Rectal feeding From 300 to 600 calories of a nutrient mixture should be given in salt solution every twenty four hours 6 Mouth feeding When mouth feeding is begun

-between the third and fifth days-warm liquid nourishment should be given and in small quantities Carboby drates should be selected Milk should not be given as a routine

7 Limitation of the overproduction or over accumulation of free gastric acid. This is done by

keep ng the stomach free from food

The administration of drugs For painful gastrospasm Smithies uses atropine tincture of belladonna or bromides. For the relief of overacid g stric accumulations he gi es 5 to 10 gr of calcined magnesium chloride every two or three hours For the acute pa n in perforation morphine is used

o Control of harmorrhage Constant bleeding demands operation. Intermittent bleeding may be controlled by rest in bed morphine horse serum and transfusion Acute hymorth ge with vomiting may be relieved by gastric lavage with water at 100 degrees F

to Ca e of the bowels During the early period of treatment soapsuds enemata should be given every other day After the second week phosphate of soda Carlsbad salts and liqu d paraffin in warm cream may be given

11 Antiluetic treatment if lues is present

The treatment of anæmia by the administra tion of iron and arsenic and in severe cases the transfusion of blood JOHN L DIES M D

Manuiloff W P Perforated Gastric Ulcers According to Reports of the Obuchow Ho pital (Deprior the Mgegshwuer of Agbades Obuschwahnkahues) h ndl d R Ch A g Pet og ad 923

It is important to diagnose and to operate imme diately when a perforation has already occurred but it is equally important to recognize the signs that indicate an imminent perforation. An increase in the frequency and intensity of the attacks indicates

impending perforation In 360 cases of gastric ulcer in which operation was done during the last ten years there were sixty cases (17 per cent) of per forating picer

Forty nine cases were studied in detail The perforating ulcers were situated as follows at the duodenum 8 per cent at the pylorus 28 per cent on the lesser curvature 34 per cent on the posterior wall to per cent and near the cardia 4 per cent The localization was not mentioned in 10 per cent

of the cases

The number of hours that intervened between the time of perforation and the time of operation is of the utmost importance in the prognosis From this standpoint the cases were divided into three group less than six hours thirteen cases one death less than twelve hours fifteen cases eight deaths and less than twenty four hours twenty one cases twents one deaths In the cases operated upon within the first six hours the mortality was 7 68 per cent in those operated upon within the first twelve hours it was sa a per cent while in those operated upon after to enty four hours at was 100 ner cent

As a rule the operation consisted in suture of the perforation usually combined with omentoplasty If the patient's condition warranted it gastro entero tomy was added. Of the forty e out patients operated upon thirty one died a mortality of 6c 2 per cent. The high mortality is explained by the fact that many of the patients came late for operation SCHLACE (Z)

Ste chele H Perforated Gastric and Duoden 1 Ulcers Experience in F fty Three Cases (Ueber d s perf ne te M ge und Duod nalge hwu h Erf hru n n 53 Faell n) A ch f k! 923 C 1 61

Ereuter's cases are carefully analyzed in this article The author agrees with I etren that trauma and similar influences are of only slight importance in the etiology

Perforation occurs very frequently in the fasting state and more frequently during the spring and autumn Many perforations occur while the patient is in bed. Immoderate smoking plays a distinct role. The number of cases of perforation and of ulcer have increased since the middle of the world

Lately the frequency of perforation and of ul cer has been greater in males than in females In males perforation of the stomach occurs most frequently in the third and fourth decad a while in females it occurs up to the age of 50 years The age of perforation does not correspond to the age of greatest frequency of chlorosis and ulcer

The greatest chances for error in diagnosis are when the symptoms are disguised by the subsequent peritonitis and appendicitis probably because the outflowing contents of the stomach pour into the lesser cavity along the cæcum. In the beginning diagnosis is not difficult

After the first twelve hours the rate of mortality increases rupidly. In the first twelve hours it is oper cent after that time, 85 per cent. The growing frequency of duodenal ulcer is atriking. The treat ment is suture of the ulcer with gastro-enterostomy Primary autere of the ab dominal wound following irrigation of the abdominal early is desarried.

Rece (Z)

Cliston C I The Treatment of Hour Glass Stomach 4 S f 923 lsx 2 557

The author calls attention to the value of the as yet little used operation of double-gastro-enterostomy in the treatment of hour glass stomach. He cites two cases. One was that of a woman of 47 years who compla ned of epigastric pain and 1 s loss of weights from 121 to 80 the M. 19 per 19 the 1

6 in from the first In the past numerous methods were used in th surgical treatment of hour glass stomach but none was entirely satisfactory. In a case with pyloric obstruction gastroplasty or gastrogastrostomy is clearly contra indicate I. Sleeve resection is a much more formidable and dangerous operation than gastro-enterostomy Most persons with hour glass stomach are thin or emacrated and poor surgical After sleeve resection the hour gla. s deform ity is ant to recur There is also a definite risk of encumonia following resection. In cases of can cer simulating the typical hour glass deformity sleeve resection is of very doubtful valu. If the lower pouch is small if the hour glass constriction is very tight and if pylonic obstruction is absent simple gastro enterostomy will suff ce If such a amailer pouch roust be dealt with pylorectomy should be done as a second stage

ionn L. Dirs M D

Sawkoff N M The Surgical Treatment of Gas tric Ulcer (D chru gi he Beh miliang des M g ngeschwu rs) I orhandl d R 11 Chr hong P t grad 10 1

In the governme t bospital at Pensa in the last eight years 319 patients were operated upon for ulcer 218 for gastic ulcer and tot for doudenal ulcer Two hundred and sixty six were men The

majority were peasants
In most of the cases the condition was the result of the abnormal living conditions of the last years coarse food and psyche traumata There were sixty cases of healed or healing utcers th try-one of which were in the pylorus seventien on the lesser curvature and twelte in the duodenum. One bund ed and twenty nine operations were per

formed for recent ulcers forty three of these were in the pylorus thirty four in the fundus and fifty two in the disodraum One hundred and eleven operations were performed for callous ulcers of these thirty hine were in the pylore perfors forty three in the fundus and twenty nine in the deoder um. In thirty six cases the condution was compiled.

cated by appendicutes. The operation of choice was posterior gastro-enterostomy. On the basis of the acidity the cases could be classified into three groups. In 21s there was hyperacidity in sixty five normal acidity and in

classified into three groups. In 21s there was hyperaculty in sury five normal aculty and in twenty-one hypo-aculty. After the gastro-ententomy the aculty decreased. The best operative results were obtained in the cases of Group?

The conclus ons as to the end results are base upon observations for a pend ranging from three to five years. In cases of healed and healing utern of the pyloris a good immediate result was obtained in so per cent and improvement in so per cent gifty 6 per cent of these cases were re-examined. The end results were found excellent in 56 per cent and good in 4 per cent.

In cases of open pyloric ulcers a good immediate result was obtained in 65 per cent improvement in 25 per cent sanda Poort result in 14 per cent. Sulty as per cent of these cases were re-exam ned. The end result was found excellent in 12 per cent good in 22 per cent and poort in 6 per cent.

in cases of open alteres at a distance from the pylorus the immediate result was excellent in 60 per cent good in 20 per cent and poor in 20 per cent. Seventy-one per cent of these cases were re-examined. The end results was very good in 70 per cent good in 22 per cent and poor in 8 per cent.

In cases of callous ulcer at the pylorus a good immediate result was obtained in 61 per cert improvement in 22 per cent and a poor result in 27 per cent. Seventy per cent of these cases her re-casumed. Of these poper cent showed a good result 23 per cent improvement and 7 per cent a poor result.

In cases of callous ulcer far from the pylorus good immediate result was obtained in 80 per cent improvement in 23 per cent and a poor result in 17 per cent. Seventy e.ght per cent of these cases were examined. Of these 60 per cent showed a good result 23 per cent improvement and 6 per cent a poor results.

In cases of simple duodenal ulcer a good im mediate result was obtained in 60 per cent improve ment in 25 per cent and a poor result in 6 per resul. Eighty per cent of these cases were re examined. A good end result was found in 74 per cent improve ment in 20 per cent and a poor result in 4 per cent

In cases of callous duodenal ulcers a good an mediate result was obtained in 60 per cert improvement in 20 per cent and a poor immediate result in 20 per cent of these cases were re-examined. Of these 62 per cent of these cases were re-examined. Of these 62 per cent above digood end results 22 per cent improvement and 15 per cent a poor end result.

On the whole the results must be regarded as good As credeoun of the phylonus seemet to be of no advantage it has recently been abandoned A face caleer of the pipuum developed in three cases in no case was vicous crede established. The total mortality was 3; per cent The causes of death were harmorrhage pneumonia bronchitis and Senance (Z)

Halpern I O End Results in Gastric Ulcer
(Due re ultate b 1 Ulcus ventriculi) Verhandl
d R Chir Ko g Petrograd 1923

The large number of cases upon which this article is based were treated at the Government Hospital Of 800 operations on the stomach 530 were done for brings diseases. Only patients not benefited by internal treatment were subjected to surgical treatment. Gastro enterostomy was done in 460 cases after cases of peptic uber of the jegunum.) The mortality of gastjo-enterostomy was 100 per cent of peptic uber of the jegunum.) The mortality of gastjo-enterostomy was 100 per cent

Two hundred and fifty four of the patients oper acted upon were found by re examination to be in good condition from one to thirteen years later in the cases of pylonic ulcer an excellent result was obtained in 615 per cent improvement in 154 per cent and a poor result in 234 per cent. In the cases of extrapylonic ulcers an excellent result was obtained in 664 per cent improvement in 85 per cent and a poor result in 254 per cent. In the cases of diodenal ulcer an excellent result was obtained in 697 per cent improvement in 109 per cent and a poor result in 119 per cent.

The author considers the results of gastro enteros tomy so good that he employs resection only when carcinoma is suspected and in cases not cured by gastro enterostomy. Even resection did not cure in some instances. Consequently gastro electrostomy in the same than the same interaction in the more dangerous resection. But in gastro and in the more dangerous resection but in gastro and in the more dangerous resection that in gastro and in the more dangerous resection. The same in the same in the more dangerous resection with the same in the

OD SCHAACK (Z)

Baumann W The Clinico-Diagnostic Signific cance of the Discovery of Occult Blood in the Faces in Surgical Discases of the Stomach Especialty Carcinoma (Unter uchune n u b d n klu ched g ost h n Wet d s N chwe ses kkult Blut sn Stuble b urguschen Mg ner krank ug n m t b o der Beru k cht gu g des Mg n arc nom) Md Al N 937 z "

Not every test for occult blood a suitable in these cases as a so called physiological hamorrhage is possible. Such a hamorrhage may result in a facial blood content of from 0 og to 0 oog per cent. There fore tests which are so deficate that they reveal such most open than the content of the properties of the properties are not suitable. These includes the phenolphthalien and thymolphthalien tests and Adlers original test. On the other hand Webers are cusartum and allon tests are not sufficiently deficate quantum and allon tests are not sufficiently deficient.

For his clinical experiments Baumann used only tablets made according to Gregoress prescription (diminishing the concentration of the benardin solution and substituting bartium peroxide for hydrogen peroxide). As controls he used the guara cum Schlesinger Holst the Wagner benzadin and the original Adler tests

All of the patients were prepared alike After strong purging for three days food free from haven globun and chlorophyl was given. The tests were made in 150 cases Positive results were obtained with all four tests in 112 cases negative results in eighty two cases and doubtful results in thirty

Baumann does not consider a positive test essen tail for the clinical diagnosis because other diagnosis teats will usually indicate the pathological process correctly. A negative test however is of greater importance. Systematic investigations made in the heal clinic during the last fifteen years have shown that the gastric carcinoma nearly always bleeds consequently a negative result in speak greater for eartinoma than ulcer. The other clinical findings must also be taken must consideration.

HAGEMANN (Z)

Colp R External Duodenal Fistulæ A S g

External duodenal fistule in which the duodenum is connected with the skin by a sinus tract may be divided into those having their origin in the peri topical portion of the duodenum and those arising from retroperitional areas. The former which usually arise in the first portion of the duodenum are the more common

External duodenal fastule are associated with a higher mortality than any other variety of fistula. As the power of absorption in the stomach is neglible an opening in the duodenum such as a duo denal fistula causes the loss not only of the intestinal juices but also of practically all food and inquid ingested. Inantion and dehydration soon become very marked. Colp believes however that the loss of pancreatic ferments of bule and of the various secretory products leaving the duodenum through the open fistulous tract is also responsible for the rapid emacation and dehydration.

Duodecal fatule may be caused by a variety of conditions. They may result secondarily from traumatic rupture of the diodenium. Before allers were recognized with the accuracy of modern methods it was not uncommon for them to form fatule by rupturing and becoming wailed off as abaceses. Occasionally fatules are the direct or indirect result of operative interference near the diodenium or upon neighboring organs which have been adherent to the deodenium. In such operations the diodenial wail may be traumatized or its blood supply restricted by ligation of vessels essential to its natiration. Operations upon the gall bladder (expercially those that are difficult) resection of the

stomach by the Billroth I or II method trans duodenotomy and nephrectomy may also be fol

lowed by fistula

The dragnosis is based upon the odor and color of the dressings the re appearance of methylene liue a luministered by mouth and the characteristic redners seeling and excernit in of the surrounding akin. The cond tion is distinguished from gratic studia by the degree of dispetion of the food particle and from light jejural fatula by havin, the prutent sail law a kernel of cora attached to a strandard time of the studies of the fatula the inness teeth. The \tau is also the fatula the inness teeth. The \tau is also

The time of appearance of the fstula is usually between the f urth and sixth days but sometimes as lite as a month after operation. The prognosis fepen is upon the use of the opening and the patients phase! con time. In the majority of cases of fstula following triange the appearance of doubten 1c intents usualls became the drain.

sias removed

If the discharge keeps within normal limits of the patient loss not appear to lose strength very rapilly and if it is known that the opening in the duods turn in not large concernative textiment is best. The larger per nage of similar fistular to presulty how following gill libad for operations will heal it the survey of tested and treated with eart and the state of the state of the state of the large transport of the state of the state of the house of girls are the state of the state of the with alkala s and ful is should be given by enematal hypodermochas or intra nough.

Lettle call stude re-lest trated by separatoring. The results of stutur of the doudenal opening an lof suture of the lundenum with gastro-enferotrony with or without jufone exclusion are much less satisfactory. All food should be given in liquid form and very slowly. The advisability of introducing into the jegin stomy the ceretions from the fatulous opening is profilematical. Retroperational fatule are best treated by simple suture of the perfect not in with omental tre-onforcement.

Jon L. Dis MD

Jones N. W. Heocacal Incompet nee A Clinical Analysis of 1 600 Case with Som Deductions Therefrom (m. J. M. S. 19 3. lx. 7

In 1 000 case of sleocrcal incompetent the most frequent sympt ms were gas constipation and so called to expurption sincluding dulines languor duli head che and de pon lener. Various therapeutic tests were m de and the results recorded. The following conclusions were rewhed.

1 Contraction of the ileocreal val may be demonstralle for a period of one hour 1st the valve remains competent for that length of time its c m petency may be regarded as constant

2 In a moderate percentage of healthy persons decaced incompetency occurs without symptom. In the majority of such cases it is associated with a mobile execum.

3 Heocxcal incompetency is of frequent occurrence in persons who have addominal distres. The rel ci of such as imprious may or may not be accompanied by relief of the regurgitation. The relief of such as imprious seems to be directly 1 lated to the re-estal histment of the normal grad cut of intestnal forces as suggested by Alvarea, work.

4 In more than 80 per cent of the cases of ileocracal incompetency the condition is associal of

steeches incompetency the condition is as with demon traffe excum mobility

5 There is a small number of cases of theoretal regurgitation with or without mobile excum in which neither the stasis nor its symptoms can be overcome by hetetic measures alone. The end

results following operative treatment justify the surgical mea ures employ 1

6 The operatic procedures alone do not relect the distre. They merely place the case back into the large group of rehevable cases which depend for cure upon letetic and reconstructive methods of treatment. However, Mayneys II, However, May.

Copher C II and Brooks B Intestinal Obstruction A 5 g 1923 lxxv i 755

Whiple has shown that in intor cation re ling from sitestimal obstruction there is a marked use in then n prote a nitrogen of the blood. Had said of the highest protein nitrogen of the blood led last of the blood colories of time that the use in bom protein nitrogen can be pre-receible by the administration and lum chlorole in sufficient hands from the said of the

The authors con lucted experiments to test the valuably of this conclus on In each of t o dogs ther isolate I a loop of intestine an I then re-established the continuity of the intestine Both dogs died one at the end of fou teen days and the other at the end of thirteen days. At necropsy the isolated loop of intestine was found distended ! y a thin foul smell ing liquid The minimal dose of this hauid which was lethal for dogs when given intravenously was determined to be 32 ccm. When this dose was injected into the external jugular vein of an anas thetized dog it was quickly fatal. There was no icer ase in the blood chlori les. In a second dig the minimal lethal dose given in the same manner was followed by the admin strat on of 5 ccm of a satur ted aqueous solution of sodium chloride This dog also die i immediately. In a third dog the lethal dose was preceded by the intrapersion al subcutaneous and intravenous administration of

n rmal saline solut on but death again resulted.
These experiments show that I use does of sodium chlor de are of no appreciable curative alor in the intoxication following the intravenous injection of the toxic contents of an obstructed loop of the toxic contents of an obstructed loop of the state.

The cause of the symptoms and d ath foll wing mechanical obstruction of the intestine is the forma

tion in the obstructed loop of intestine of a powerful tone substance and its absorption into the circulation. This substance is not present in the lumen of the normal bowel and is not absorbed by normal intestinal mucosa. The factor most often promoting its absorption is interference with the blood supply of the obstructed loop of gut by strangialmon of tention. If strangially the factor is not in the substance of the tention of strangially the content of the strangially the formation of the substance of the s

It is impossible to get the toruc substance out of a loop of obstructed gut a loop of intestine cannot be washed free from it. The removal of damaged mucosa is imperative if the damage is severe Ex periments show that after absorption the town reacts with some body tissue and does irreparable damage also that after a certain dose has been absorbed there is no possiblity of relieving the intoxication. The only way in which it would be possible to neutralize the town absorbed into the circulation would be to introduce into the blood stream some substance that would react and destroy the toxin before it reached the tissues Haden and Orr believed that sodium chloride would so react but the authors experiments do not confirm this theory

If treatment can be instituted before the lethal dose of toxin has been absorbed and it is possible to pe event the further absorbed and it is possible to the toxin the patient's life may be saved but if the lethal dose has already been absorbed there is no known method of effecting a cure

IOHN L Dres M D

Jacobsen H Volvulus of the Crecum (Volvul's du ca c m) Act ch rg Sca d 923 l 1 81

Jacobsen first revue s the history of volvulus of the execum and mentions the to types of this condition viz volvulus including the neighboring or gains and volvulus of the execum atone. To the 110 cases already reported he adds twenty from his service in the Viborg hospital Demmark Eleven of the latter were cases of volvulus affecting the execum alone.

The condition occurs most frequently between the seventeenth and thirtieth years of age and from 70 to 80 per cent of the subjects are males

Cacum mobile may be due to excessive length of the mesentery unusual situation of the cacum or

faulty insertion of the mesentery

The volvulus may form (r) a pocket the cecum

being distended like a pouch and twisted (2) a loop with the neighboring portions of the large and small intestines or (3) a knot between the execution and the learner Complete knots are rare but a number of cases of incomplete knots have been reported. The torsion occurs as often from the right to the left as from the left to the right.

The immediate cause of volvulus of the execum is overfilling and distention of the mobile execum its di placement causing a fixed tract on point resulting

in chronic peritonitis with scar formation. Constant influx of gas and fluid makes the cascum heavy and finally paralyzes and fixes it in an abnormal position. The end result is torsion.

In one half of the cases there is a history of all dominal frouble and in a third a history of previous similar attacks. In it elve of the author's cases the symptoms were very acute. Two patients had suffered from diarrheas one became ill after a very heavy meal two after coughing one while pregnant and one soon after confinement. One was insane and one had a herma.

is rather low down

The first symptom is violent pain which comes on suddenly and often is diffuse Vomiting occurs in all cases a short time after the pun The attacks are frequent and the vomitus is green. In one of the author's cases the vomitus was fæcal. As a rule the occlusion is total but in a few cases gas and facal matter are passed Local meteorism around the umbilicus or across the abdomen in a welt is charac tensue Sooner or later there is diffuse meteorism Palpation is generally negative but sometimes a soft mass is felt in the pouch of Douglas. The gives some indication as to whether the obstruction is located in the execum or lower down. As a rule the patient is greatly depressed but in fair con dition. The temperature is normal or around too degrees F and the pulse is normal

The diagnosis between volvulus of the excumiteus and acute append cit is difficult liteus is more acute and occurs higher up Volvulus of the signoid fleture is more frequent in the aged more chrome and associated with tensmis less water can be injected into the rectum than in volvulus.

of the cacum

After a trial of large enemata of water the treat ments usinged. A large incision is made in the median line and the volvulus carrilly reduced by manipulation. Teras are apt to occur repiete of all care. Possibly the distended loop can be empired first. After correction of the volvulus the boned must be cleared. If gas does not pass during the operation the boned should be flushed and a lara tive given through a tube. Pittuttin and eserin should also be administered.

Other surgical measures are

r Puncture of the excum and evacuation of the gas by means of a bypoderrme needle and of the fluid by means of a trocar

2 Incis on evacuation and suture 3 The formation of an artificial anus No result

is obtained if the volvulus is not first untwisted. An

incision below the volvulus is of no value and an incision above it gives only temporary relief. In incision in the involved loop itself hinders untwisting Enterostomy eccosiomy appendicostomy or entero-anastomous may be necessary but can be done only if the intestine is vialle. If the intestine is not viable resection is indicated

I timary resection may be followed by circular joining of the ends and an anistomous between the lleum and the transverse or pelvic colon closure of the penpheral end and implantation of the ileum into the colon (Olsson) or fixation of both ends in the abdominal incision.

Before the operation is finished the prevention of recurrence must be considered especially in case of volvulus of the sigmoid flexure. This is untilly assured by secondary resection when the patient is better the formation of an artificial amus entero-anastomosis typhlopszy mesopezy and division of adhesive bands at the base of the messettle.

The results in Jacobsen's twenty cases agree in general with those reported by others. Jacobsen

draws the following conclusions

1 Laparotomy should be done as early as possible 2 If the trusted loop is vable and easy to reduce and the patients condition is not too poor simple untwisting may be done if fifter their cring of adhesions or puncture typhl pexy may be done if

necessary A good evacuation should be obtained.

3 If the gut is only slightly affected and difficult to empty by simple methods appendicostomy is

4 If the gut is attacked by gangrene resection is indicated. If necessary this may be done in several stages A. C. Muzza M.D.

Meyer R E; Carcin ms and Carcinoid of the Appendix (Arebs und Carci oid des Iroc u vermiculari) terkandi d R Chi h t Petrogr d 1913 250

The appendix is sometimes found to be the sutof growths called carcinouts. These tumors have been designated also as lymphendothelomata neuroopstomats murcous new and lymphangetits hyperplastics. They have nothing in common with acritional. In microscopic estimations of fight removed appendices three neighbors of spithal carcinomal. They have nothing in common such carcinomal and the carcinomal and the carcinomal and two carcinomals.

Carmoma of the appendix develops at an advanced age and is usually an adenocarcinoma or colloid cancer. Carmond occurs as a rule before the age of 30 years usually does not metastasue and is but gn increacopic examination shows the presence of smooth muscle and lipo is and the absence of mitoses and penetration

It may be assumed that the carcinoid develops from an embryonic rest at the time of the formation of the cell masses of the glands of Lieberkuchn. As in other neoplasms developing from such rests malignant degeneration in carcinoids is possible but has not been proved. RACHELLO of Petrograd in the discuss on of the paper stated that in the Obuchow Hospital in the service of Grekow one cancroid was found in 10.5 removed appendices. Cancroids he believes are beingn and occur most frequently in women be tween the ages of 20 and 30 years.

theen the ages of 30 and 30 years
Smotjakorr of him Novgorod reported the
case of a patient who was still in good health five
years after the removal of his appendix for carcroThis case he believes indicates the being thir

acter of the growth
GEIVATE of Petrograd stated that Federoff had
found a case of simple carcinoma of the appendix.

found a case of simple carcinoma of the appendix. All layers the mesentery and part of the omentum were infiltrated

PAREN of Perm reported a case of adenocarcinoms of the appendix in which appendectomy was followed by recurrence after six months Gracox (Z)

Carman R D and Fin man S The Rotat genological Diagnosis of Diseases of the Colon-Radiol 19 1923 i 129

The most common organ c diseases of the con are neoplasms devertucibus subervulous and chrome alterative coluits. The reentgenological study of the colon in these conditions reselved to the conditions reselved to the conditions reselved to the conditions result of the colonial state of passage and transition or contained conditions and deformities in the outline of the colon of the diseases mentioned a differential diagnoss based on pathogonomen reentgenological evidence can usually be made only in a diverticultus. In case of tuberrulous neoplasm and thorace ulcrastive tolking the resulting of the condition of the colonial colonia

To elect the roentgenological signs of colonic daease either the opaque meal or the opaque enema is

applicable and each has its advocates

At the Mayo Clinic the barrum enema has been found of greater value than the inspected med) in the diagnosis of discriticulties neoplasms tuberulous and chronic ulceratuse colities. In ope per care of the cases examined with the enema filling of the con six continued until the barrum mixture passes through the illicocccal valve. In cases in which spassitorly a freed an attrappandoics in physiological doses are used. Non retention of the barrum in the exceeding shortly after its fill pig with the barrum defunction that the case of the control of the barrum of mixture has been observed in carcinoma and tuberculous and chronic ulceratus colitis.

Frequently lesions cannot be detected unless deep palpation and approximation of the bone was is resorted to during the fluoroscopic examination. Palpation may be done most satisfactorily and is curately with the bare hand or the hand entased in a soft leather glove. Mothity has been found of very limited value in the diagnosis of colomic disease.

Very small lesions the extent of the lesion and lesions in the distal half of the colon can usually be demonstrated best with the barium enema Roent gen evidence is pathognomonic in the majority of c ses of diverticulitis and in many cases of chronic ulcerative colitis. Tuberculosis and carcinoma of the colon do not present pathogonomic evidence but the roentgen ray findings usually justify a diagnosis of filing defect or lesion. Double lesions of hike or unlike pathological character occur in the colon.

As a rule roentgenological diagnoses of diseases the colon should be limited to actual shadow phenomena observed the final diagnosis must be based on the correlation of all known data. Sometimes a specific diagnosis cannot be made with assurance until after a biological examination of living reproved at operation.

RUSSELL D CARMAN M D

Helmholz H F Chronic Ulcerative Colitis in Childhood Am J Dis Ch ld 1923 vi 418

The author's five cases are the first series in children to be reported

So far as as known there is no single definite tendogical factor. The condition may be the result of a variety of infections progenic dysenteric another or tuberculous but whenever a specific cause can be demonstrated the condition is usually of the five cause here reported was it possible to demonstrate the presence of any of the finections mentioned.

The ulceration generally begins in the lower por tion of the bower and in the course of the illness in volves the entire colon. The ileum is rarely affected Prectoscopic examination shows the ulcers most marked that the rectum and lower signoid. The colon algazed and showing numerous small ulcers. The roentgenogram is characterized by marked narrowing and absence of haustra in the entire extent of the unwolved colon. The diagnosis of the condution is based on micropurulent distribution associated with the properties of the conduction of the condu

Under medical treatment the prognoss is un invorable. In two of the case reported a colostomy was performed in the third an appendicostomy and in the fourth an ilecatomy by means of which the lover bond could be constantly irrigated with saline solution. With a double opening of the ilecatomy the cutracte of leters into the colon was prevented the cutracted of leters into the colon was prevented to the colon of the colon was prevented and the colon of the colon of the colon of the fall cases death was due unquestionably to the complicating infection around the rectum and in the page muscle in the other it was due to lack of resistance which prevented normal healing

If the patient does not improve in the course of six weeks or two months under medical treatment it is advisable to operate. The operation of choice is the procedure devised by Brown consisting of an ileostomy with the establishment of a complete facal fistula through the lower loop of which the colon can be irrigated. An operative mortality of 50 per

cent is extremely high but it seems very certain that without operation all of the cases reported would have been fatal.

H F HFLUHOLT M D

Bolling R W Partial Colectomy for Megacolon
Ann Su g 1923 lexvii 681

Bolling reports the case of a 14 year-old boy who had a history of constituation since birth abdominal distention and intermittent attacks of abdominal pain. The patient was sent to the hospital on account of severe abdominal pain which was not releved by catharties or nemata. On examination a large faceal impaction was discovered. This was removed and the patient was discovered. The was a sent that the patient was the patient with the patient was discovered. The was a sent that the patient was a sent that the patient was the patient was the patient was the patient was a patient with the patient was the patien

The patient remained well for one month. At the end of that time abdominal pan again recurred but yielded to medical treatment given at home. Subsequently until one year ago similar attacks occurred at intervals. One year ago the patient was read at intervals. One year ago the patient was read the surgent service of Bolling. The \infty ry findings were the same as before except that the dilatation of the signoid colon was possibly slightly greater.

At operation a ft of the large intestine including the signoid were resected and the descending colon was united to the rectosignoid by lateral anastomoss A small rubber dam drain was introduced on a stab wound. The signoid colon and rectum were found to be greatly dilated and the walls thickened. The remainder of the intestine appeared somewhat dilated but relatively normal

The postoperative course was uneventful and the boy left the hospital nunction days after operation free from symptoms Subsequently he gained 22 lb. At times no bowel movement occurs for three or four days but a bismuth injection was completely chimnated in twenty minutes.

DAN MELLEN M D

Kelly H A and Ward G E A Clinical Study of Radium Therapy in Carcinoma of the Rectum S rg Gy ec & Obst 19 3 xxxv 626

The treatment of rectal cancer has been greatly facilitated by radium but is still difficult and often disappointing. We are able measurably to relieve suffering of patients whose condition is hopeless to prolong the lives of others and to cure an appreciable percentage. In the treatment of retail carcinoma at the kelly Hospital Baltimore three methods of applying radium are used.

r The implantation of bare emanation needle points into the disease focus

2 The direct application of emanation to the disease area

3 External or deep radiation with massive doses from a distance

The technique of the implantation of needle points consists in inserting or threading tiny glass capillary capsules into the end of a long needle and placing them in the growth by sight preferably near the periphery of the mass. The rule is that i me will destroy i c.cm. of tumor tissue.

Direct application to the surface of the tumor in the rectum is done in various ways. The authors lave found best in most cases a cloth appl cator with several pockets continuing the tubes of remanstion which are screened with o g mm oll a dan l verapped outsie to absorb the secondary rays. If the growth is annular a finger like applicator is preferable. This is meetered through the rectum by means of the processory or with the guilding finger the speculum.

Ing omitted The dose is usually r or 2 gm hr For external application heavy lead application and 2 or 3 in portals are used In this way from 1 to 15 gm br can be lelivered to the growth with out causing erythemy of the skin If four portals of entry are u ci the listance is 3 in and 10 gm br are given over each making 40 gm br in all are given over each making 40 gm br in all.

With the combination of these three methods it is possible to give relief for a long period of time to cause a marked r luction in large tumors and to

biain a cure in an apt recable percentige of case. The cases reviewed are all of those entering the lossital with the liagnosis of primary retail care; no is in the ten year period form 1072 to 1072. The series mindle is perceived by the six of the liagnosis of primary retail care; and the liagnosis of the liag

Of the mnet on hopeless cases \(\tilde{\tilde{9}} \) per cent were benefited 11 by for cent not benefite 1 The patients who vere benefited like | from three months to two years. The cause of the lack of improvement in its four raves is not kin on as some of these were given as much radiation as the c \(\tilde{1} \) the cities to reduce the lack of the content of the expert of the content of

In three tables the authors show the relative values of the various in thods of treatment used Of the cases treated with radium alone in 6 3 per cent of which the condution was hopeless and in 6 1 per per cent of which it was extensive a cure w s obtained in 8 5 per cent and pallution in 6 5 per cent. Of the patients who vere benefited but not cured 3 per cent i ved more than eighteem months

The best results with radium teatment alone (pallistion in 70 3 per cent of the cases an I parent cure in 11 2 per cent) were obtained by com! nat on treatment both external and internal be ternal treatment alone resulted in a cure in 11 1 per cent and internal treatment alone cured in 5 8 per cent The number of cases treated with needles plus inter

nal application or with needles alone is still too small to warrant conclusions as to the efficacy of these methods. Of the operable cases treated with radium alone two were cured two were benefited and one was not benefited.

Of the group of patients treated with ralum piles operation 17,5 per cent were cured 50,5 per cent were benefited and 60 per cent of those lived eight of the commodities of thought. Of this group thatty that of the commodities of thought. Of the commodities of

There were twelve patients in the seri a with an operable tumor of these so per cent are well five (at 6 per cent) were benefited and one (8.4 per cent) was not benefited. Six patients were subjected to ra hum therapy and extripat on. Three of these are

well and three were benefited.
The cute I cases comprise it per cent of the total number. They were treated by three methods (i) radium alone (2) ra lum-colostomy, and (3) ri I um operation. Radium alone cured \$4 per cent radium colostomy \$6 a per cent and radium-operation. It is per cent of the patients treated by these methods. The authors conclumous are solilous are follows.

r The use of ra hum alone or with some operatic procedure is by far il e most effective treatment of carcinomy of the rectum in any stage. Cases not responding are regarded as not radiosens tive remaining the combination of extern I and internal

applicat on gives the best palliation and external rad ation plus radical operating needs the high st percent go of cures. I cuther tril will probably show that implantation of nee lies alone or combined with other procedures will give the best results of all. The authors suggest the following rule for the

treatment of carcinoma of the rectum

If the case is operable radiate espec lly externally and her ilv and operate If it is inoperable radiate externally an i imprint i due to tender the condition oper ble If this is successful operate Postoperative recurrence should be treated with rad um If there is an obstruction colostomy is indicated but colostomy is a routine is un ise

A JAMES L REIN MD

LIVER GALL BLADDER PANCREAS

AND SPLEEN

B neroft F W Chronic Ch I cystitis With ut
Stone A n S g 923 1 603

The author refers to the type of case coming to the hospital with a history of repeated attacks o pa n in the right upper quident often radiating to the right shoulder. In such cases there is frequently also a history of vomiting and sour eructat ons However the attacks are not so severe as those of col c due to cystic obstruction. At operation the gall bla ider wall is sometimes found markedly thickene I and with numerous adhesions. In such cases Bancroft does not hesitate to perform chol ecystectomy Sometimes however the wall feels only slightly thicker than normal and there are no The author discusses the advisability of opening the gall bladder for exploration in cases

of this type Bancroft reviews thirty eight consecutive cases in which cholecy stectomy or cholecy stostomy was done I wenty four (63 2 per cent) were those of women The average age of the thirty six patients was 36 years and the average duration of symptoms two an I one half year The chief complaints were pain and soreness in the epigastrium or the right upper qualrant The pain radiated to the back in twenty four cases (63 2 per cent) In nine it was dull and in twenty nine knife like Thirteen patients complained of in bgestion and gas after eating and nineteen complained of vomiting Fleven women and five men had had previous operations for inflammatory con bitions of the lower ab iomen Five women and seven men had disease of the appendix There fore in twenty eight (7.3.7 per cent) of the cases there were coen ting inflummatory conditions of the lower abdomen

On physical examination most of the patients were found to be moderately adipose them d I not appear very sick. Rigidity was moderate in four cases and marked in twenty five Fendern ss in the upp r right quadrant on deep pressure at Murphy's point was notice I in thirty fie cases and absent in three. Cholecy tectomy was I ne in thirty-one cases cholecystostomy in six an I inversion of the distal portion of the gall bla lifer in one case of hour glass constriction. Of the thirty one pitients subjected to cholecystectomy only four hal poor results and two of these were decide t neurotics Therefore good results were obtaine ! in 88 5 per cent of the c ses In the ca es of chol ecystostomy good results were obt mel in three (so per cent)

The author therefore comes to the c nclusion that a lugnosis of chronic cholecystitis is justifed in cases with a long history of pain in the right upper qua frant u wally rad ating to the back an I ten fer n as on pres ure over the region of the gill blad fer This pain i w ually n t so s ere as that lue to obstruct on of the cystic luct. The Lyon test proved I decided diagnostic ad in nine cales. In the treatment operation is justified ind the proted te of choice is cholecy stectomy

I as I Day M.D.

Di mond J S An I perimental Study of th Meltzer I you Test with Comm nt on the Physi logy of the Call Bl dder and Sphincter Vateri im J Il Sc 19 3 12vi 894

The technique of the Lvan test is now too well known to require a detailed description. Suffice

it to state that the introduction of about 50 c cm of a saturated solution of magnesium sulphate into the duodenum by means of a duodenal tube is followed within a few minutes by a deeply pig mented bile which Lyon has called the B bile Noticing the similarity of the B bile to the con tents of the gall bladder in color and viscosity Lyon assumed that the B bile is gall bla lder bile By means of experiments on dogs the author

attempted to answer the follo ing questions 1 Does the deeply pigmented viscid bile originate in the gall bladder?

2 Does the gall bladder contract and empty its

contents? 3 Can the gall bladder contract at all?

What is the function of the gall blad ler? s Is Oddi s muscle a sphincter in the true sense

of the word?

6 What relation does it bear to the gall bladder? Does magnesium sulphate or any other chemi cal substance produce a dilatation of the sphincter and simultaneously cause evacuation of the contents of the gall blad ler?

I duodenal fistula was established in the dogs and at the same time a carmine emulsion was introduced into the gall bladder. When the animal recovered from the operation various chemicals were injected through the duodenal cannula The conclusions drawn are as follows

The function of the gall bladder may be regarded as merely that of an overflow receptacle in the nature of a diverticulum of the common duct which is not contractile. It never empties itself completely but occasionally small quantities of its contents may escape The sphincter of \ ater bears no relation to the

gall bladder either anatomically or physiologically Stimulation of the sphincter has no effect upon the gall bladder contraction or the evacuation of the contents of the gall bladder. The observations of Dunn tend further to disprove the selective action of magnesium sulphate upon the sphincter papillæ and through it any contrary innervation causing contraction and evacuation of the gall blad ler Jone L. Dus M.D.

D mer H L and T S Cullen The Fnd Results in Nearly 300 Ca es in Which the Gall Bladder

Was Drained-Not Remo ed Su ! Gynec & 0 2 1 22 150

In the foreword Cullen states that the sole pur pose of the article is to ail in est bl shing a proper perspective in the matter of gall bla ider surgery Darner's report covers a series of 206 surgically

treated gall bladder c ses in 200 of which a chol ecustostomy was done With the exception of fourteen cases which could

not be traced the definite en I result was established in every instance. In the great majority of the cases the condition was chronic cholecystitis and chol el thiasis with or without acute exacerl ation at the time of operation Gangrene was present in seven

teen cases an lin ti enty five the gall bladder disease is as noted incidentally in the course of an operative

procedure for another condition

Marily uniform technique was u ed in the entire series. A rubber drainage tube is a sutured in the gll bladder with plain catgut sutures either mat tressed or ab piel over through the limited a catgut pursestring was then passed through the cut will be the gall bladder and two flat ciapartic drains were placed below the gall bladder the gauge not quite reaching the end of the drain. One drain was removed on the second day and one on the third flat tube usually came away bet; cen the tenth and thirteenth days and the abdominal yound was healed at the end of the third or fourth week.

Twenty nine patients died immediately after the operation. Fourteen were not located mineteen were notenedied thirteen were operated upon a second time twenty six were markedly benefited and 202 were either well or free from gall bladder symptoms until death occurred from some other.

disca e

The immed ate death rate of 10 per rent can be reduced to 4.14 per cent by excluding seventeen cases in which the pre-operative condition was very poor. The percentage of 4.14 per cent represents deaths due to unforeseen postoperative complications.

The symptom free period following operation in the 202 rem uning cases ranged from one year to

more than ten years

Lack case is reported briefly with mention of the outstanding symptoms the jathology the operative technique and the immediate and end results. The only conclusion drawn from this analys is is that in the hands of the average surgeon and in the average case drainage of the gall blade in safer and extension than its removal and that in the cases in which the gall bladder should be removed the patients con dution or the nature of the less on may make removal impossible. P. U. R. BLILLYGETE, M. D.

After a brief renew of the literature Suermondt gives the rules of gall bi dder su gery used in the

el nic at Leiden

A cholecystectomy is performed under local an artheria only in case of high temp rature rapid pulse of turbed sensorium and cterus. In a ute cholecystitus a radical cholecystectomy is more severe than an appendectom therefore the gall bald er is not remov 1 until nil mination is en tirely gone. The absolute ind cat in s10 operation are perforation 1 to the free abdominal cavity acute chol cystitus with juunduce no umprov ment after two or three dats and acute cholecystit is with threatened peritonitus. Jaunduce in those with the dence of acute infects in its and cation for opera dence of acute infects in its and cation for opera

tion only when it continues for eight or ten weeks. In order to prevent chikem c harmorthages calcume is given. Call stone liseuse is operated upon her internal medication is without result and colicky pains persist.

The operation can ask in chol vist ctoms and in examination of the bidary pass or. The t answer examination of oche is rec immended. The cheledata in the control of the co

No b harp fatule were observed. Shoulf they occur Zaa jer recommends enterostom, and an jection of the out flowing bile into the intestine. In cases in which the bile duct is not drained the cyste luct is lighted with religit and in one to prevent the contract of the cystem of the

ace is established

The material consisted of 200 cases of who secenty saw were cases of stone free of inflammation (forty two 1 thout and thirty four with icterus) row receives of stone with inflammation (1814) say without and fo 19 four with jaund col 2 and four teen cases of inflammation alone Pantreatives whose red five times in these pri ents twee in combination with stone and three times in the inflammation. Stones were found in the large bil arm passages fifty one times

In 00 operations the total mort lity was 6 per cent. In thirty six chol cystostom es the mortality reached it per cent. Chol cystostom and subsequent cholecy steetomy, resulted in a mortality of 14 per cent. In contrad stinct. In 10 these r. ults, 143 cholecy steetomies had a mortality of only 4 per cholecy steetomies had a mortality of only 4 per

cent

Infe tion of the abdom nal wall was observed seventeen times. Sixty potients were obseque by ear med none showed a recurrence. Several had mild digestive distu bances three a protrusio of the lateral scar and one a herma. In the rest the costal murgin incisions were firmly heal.

JORDN A. (T)

MISCELLANEOUS

Kappis M and G lach F The Importance of Paravertebral Injection of N ocaline in Diff rential Diagnosis (D d ff t id x oc t sch Bedeut g der pa rt bral N ocal prit ng) M d M 1 19 3 84

The author alues highly the paravertebral in jection of a vocaine in d ag osis especial y in un certain case.

The o s per cent povocaine solution is not kept exactly at the midline as the solution di tribute itself med lly

The best openiation is obtained by using the ninous processes as the site of injection in stout persons the counting control is from the last rib

The biliary system and the pylotic and duo lenal regions are supplied vi certilly only from the right sid I urely gastric pains should lisappear in an æsthesia of the si th to the eighth dorsal nerves and purely biliary pains in any thesia of the ninth and tenth or at most the eleventh dorsal nerves If the does not occur the do ase mu t be of a different nature or there must be present some other disease or compleations which over halo's the original d sease

Renal diseases ar painle s after anasthetiza tion of the twelfth dorsal and first lumbar nerve In these conditions a therapeutic result : obtaine ! in adl tion to the dagno tic re ult Colics and pains disappear immedately and usually never re turn In diseases of the append t the results are uncerta n REPLACE (/)

Circulaff S S The Innervation of Intra Ab dominal Adhe ions (/ur Innervati n ler i tr ald minallen Verwa h u g n) I h dl d Riss Chr hote lett g 1 1921

Thise studie were made on the adhesions occur sing after at pendicitis an I gastric ulcer. The author

comes to the following conclusions

Inter abdominal a thesians contain blood vessels an I nerves The latter occasionally reach a marked degree of development and may consist of I ranches of five to six separate nerve cylinders their develop ment is dependent upon the immediately adjacent parts of the peritoneum. The symptoms depend upon the character of the nerves innervating the adhesions

CII SE of Letrogra 1 in discussing this paper said that in intra al dominal a thesions produced by ulcer of the stomach or duo lenum the Head zones are usually found. When such adhesions are found in carcinoma the Head zones are not present. It must therefore be a sumed that in the adhesions resulting from cancer of the stomach and duodenum the nerve end unit reasuch change that the develop ment of Head zones is prevented CRECORY (Z)

GYNECOLOGY

UTERUS

Uter Unrecognized Car inoma (Caron mer h | (pung) 31 1 ch f 6 b 1 h u 6 k 9 3 | 1 7

Of 178 patients with carcinoma (140 of the cerv x and 38 of the body of the uterus) only th tree motor treatment within the first fourteen days after the appearance of the first symptoms Accordingly per cent of the cases were unrecognize for an aver age of five and a hill months. Only thirteen and were sought t estiment within the fir t four weeks. In merity one third of the cases the attending physican alone or with the patient was responsible for the delay.

The deterioration of carcinoma statistics complained of by some writers is due entirely to this delay and a more energetic campain a should be waged against it. Uter makes a routic recreations tion of every patient because he has found carcinoma present even when a previous exploritory curettage reveal dino reason for the suspicion of mal gnancy.

N uwirth A. The Substituti n of Irradiation fo Operation in the Tr atment of Uterine Cancer (U ber de Esat d Oper two ds Gebe mutt kebes d h de St hlabhadlag) Vn B um elle 923

The author discusses the position of the leading German and foreign hospitals with egard to irrad a tion treatment of uterine cancer and calls attention to the excellent re ults obtained by Doederlein in more than 1 000 cases—results that even advocates of operation cannot depy. The average primary mortality in operatively treated cases is 20 per cent teradiation is associated with practically no mo tal According to Scuffert's research irradiation may prolong life by more than two years even when the condition is advanced. Moreover pregnancy i possible after this treatment wher as surgery cau es sterility Doederle n reported a case in which a normal child was born six years after a cure was effected by irradiation. Pregnancy is known to have occurred also in two other cases treated at the Doederlein and Bumm choic The argument that because of the quick improvement occurring during arradiation women are apt to discontinue the treat ment too soon is well founded but much can be done to combat this tendency through education of the lists. The strongest argument ag inst irr dia tion is that certain cancers are refractory to it and there is as yet no chemical or microscopic test by which the prognosis can be determined definitely This is true also of operation as otherwise local recurrence would not develop

In the chapter on technical improvement New with mentions the cup o electrolysis of Seitz and Wintz the vaginal raying of Bumm the Flatas radium carrier the strengthening of the or gain defines by inje tions of blood arsactine tec. and the American method of rad um treatment with emans too needles

In the chapter on his own experiences the author cites four cases treated successfully in Doede lens clinic or by Doederle n s method In summing up he states that the splend d operati e results ob tained by Zweisel and Schauta (a relative cure in about 87 per cent of the cases) have been almost equaled by Doederlein a ho obtained a relative cure in 8r per cent and that the res Its of the Werthem operation (a relative cure in 45 per cent of the cases) have been surpassed by Doederlein a d have been almost reached by Seitz who obtained a cure in to p r cent of his cases and by Kehrer who obtained a cure in 45 4 per cent While little further in provement in operative technique is possible the technique of irradiation ; still to be fully developed. Another a lyantage of irradiation is that it is more economical than su gical treatment as it does not require the long hosp talization made necessary by oper fron WOLMERS LEUSER (G)

Kraul L The Results of Irrad ti n Treatment of Cancer of the Uterus (k geb uss der Strabl beh dlung des G ba mutt fir b es) Z ni lbi f Gy a k 923 xlvn 573

The author reports on the results of 1 radiation nears of cancer of the uters vagina a dvalva at von Pebam s clinic. During the period from 150 to 1512 all noperable cases were rayed accord as to the Setz Wintz method with local applications of radium. Of the patients who had been operated upon only those were rayed in who hat the operated upon only those were rayed in who hat the operation of the second to the second

A cure was obtuined in eleven (17 per cent) of sixty four cases of inoperable cervi al carcinomathree (28 per cent) of nine cases of vaganal cranoma and one (o per cent) of the cases of vaganal cranoma in the cases of co pus carcinoma no cure resulted. The results of prohylactic postoperable irr diston and irradiation of recurrence is hard to stimate as the differential on between chest of the countries of the

destruction are thrown off through the gastric mucosa and that the comiting is similar to comit ing of pregnancy and parturation which is not due

to a pre uramic condition

In 50 per cent of the cases autopsy showed the direct cause of death to be uramia from stenosis of the ureter and hydronephrosis In cases of roentgen ray injury daily injections of from 20 to 40 c cm of 1/2 per cent novocune solution into the surround ing tissues proved beneficial. In cases of necrosis of the rectum the pain was alleviated by daily enemata containing 1 or 2 tablespoonfuls of novocaine adrenalin

The average duration of life in cases of entirely untreate I carcinoma of the cervix was 239 days in inoperable and advanced cases 415 days and in cases operated upon and those in a high a recurrence WOLM RHAEDSER (Z) developed 750 days

ADNEXAL AND PERI UTERINE CONDITIONS

Intra Abdom nal Hæmorrhage W from Ruptured Corpus Luteum with the Symptoms of Acute Appendicitis (I traab luteum dom n lle Bt tungen us geplatztem Co p trde Sympt men e et al ten ippe di t)
et ki Ci 923 c 664

The numerous conditions with which appendicitis may be confused include hymorrhage from a corpus luteum At the surgical clin c at Basel hæmorrhages

from a corous luteum of menstruation were found eleven times in more than 900 operations on the carcum Two of these eleven cases are not considered in this discussion because the data were incomplete In six cases the hamorrhage occurred from five to eight days befor menstruation and in three between

menstru I persods

Be t

The I leeding is usually accompanied by a sudden cramp like pain. Nausea vomiting diarrhoea or constipation may follor. The cause of the hæmor rhage is to le sought in a moderate rise of abdominal pressure since in none of the cases was there a

history of seve e trauma

I upture of the corpus luteum may be caused by strai ing of the ab lominal muscles in constipution this having occurred in several cases. The rise of temperature in corpus luteum hæmorrh ge is slight The small I flerence bet cen the axillary and rectal determinations (maximum lifference 7,10 legree) is striking. The pulle is readily f lt and the pulse rate | So to 100 be ts There | no s gn of anamia or f cies abdominals Mu cular tension s 1 ght but some ten ierness is note i n pressure. On v gi nal or rectal exam nation there 1 als as s dist not pain n the affecte i side The leucocyte count is I ghtly r el It varies bet een 5 000 an 1 10 840

Since the diagnosis can never be m le 1th ab lute certainty operation is the tre tm nt of choice The capsule of the c p luteum may be sutured or a a Ige excision may be lone Because of the possibil to of disease of the other o are the entire ovary should not be remo ed. If there is

opportunity for careful observation and pregnancy can be excluded with certainty expectant treatment

is allowable Histological changes could not be demonstrated in the excised corpora lutes In each case a corpus

luteum of menstruation was found. In eight of the nine cases the next menstruation appeared either regularly or even later than normal in spite of the removal of the corpus luteum. In one case it ap peared t elve days early These observations speak against the Halban Koehler theory that the corpus luteum inhibits menstruation STUEBLER (G)

Heaney N S A Simple Method of Testing the Patency of the Fallopian Tubes 1m J Obst & Gy c 19 3 V1 581

As soon as Rubin described his method of transufflation and he and others had proved it harmless the use of the ear syringe to test the patency of the tubes from below was adopted. The author has tried this procedure in every case of sterility examined since that time and has gained experience by using it also in every case in which the peritoneal cavity was to be opened either vaginally or ab lominally. All tests are made with the patient in the lithotomy position

In most cases air readily passes into the peritoneal cavity with a peculiar whistling or gurgling sound Occasionally light pressure must be used If the tubes are closed air will not pass after the syringe is about half empty. If the syringe empties

the tubes are open

When there is doubt as to regurgitation at the external os the vagina may be filled with water until the cervix is immersed or a lubricant may be used in the cervical canal so that if leakage occurs bubble will be seen EDWARD I CORNELL M D

MISCELLANEOUS

La Roque G P Pus in the Pelvis of Women \ lok M J & M d R 1923 CTX

This article is based on 150 cases of pelvic suppuration with four deaths a mortality of less than I per cent Pus was confined to the uterus tubes and ovaries in 330 cases In 170 there were walled

off pelvic abscesses The author warns against emergency operations surgical treatment to prevent fu ther extension of

in acute pelvic infections but advocates early

the disease to adjacent structures and to obviate the necessity for a more mutilating and dangerous operation Systematic an I thorough procedures are called for

In o per cent of the cases all d sease should be treated at one operation

In the cases reviewed drainage was instituted

after the laparotomy in less than 10 per cent. Of the 1 o cases of pel 1c abscesses dramage was in stituted in thirty five in this group there were three fatalities

The mortality should not exceed a per cent and there should be no postoperative pelvic pain pu

rulent vaginal discharge or excessive menstruation Postoperative vaginal discharge is largely excluded by proper surgical treatment of the lacerated and infected cervix the author recommends the use of the electric cautery kine.

Subtotal hysterectomy was done when the removal

of both tubes was necessary

Oophorectomy was performed in al ghtly, more than 30 per cent of the total numl er of cases. It lateral oophorectomy v as never done in the cases of women under 45 years of age unless both ovaries were hopelessly involved. In about 00 per cent of the cases it was found possible to conserve at least a part of one ovarty. C PL as Joss VID

Norris C C and Mikelberg H B G noc ccal Infections in the Low r Genital Tract of Fernal Infant and Young Girl with a Report of 100 Cases Th p G 923 38 xu 75

Gonococci vul ovagenits in infants and soung, indiden a generally beleved to differ in many respects from a similar type of infection in adults but on careful study the differences are found to be more apparent than real. In practically all choin cases the cerviv rierbri and flat theins glands are infected just as in the adult. In the child the vagenal luning and the slan covering the labia and cet and gentiality are also stateded in fact this is the pri man j form of the infection. The rootine use of the child potential potential

The source of the primary infections often difficult to determine Contamination is frequently triced to an infected mother It is seen more often aftir bir ch than after cephalic presentations. A large

number of children acquire the disease in schools and institutions. Baths contaminated lines at fendants hands clinical thermomet s and toilet seats are factors responsible for the pread of the condition.

For successful result—the t eatment must be one that is easily administered free from harmful effects an I painless—The techn que used by the authors is as follows—

The child is placed upon a table the hips are elevated and a rubber covered p llow is placed under the buttocks. It is essential that the pel is be tilted in order that the solution injected int the vagina will gravit to backward and flood the e tue vaginal cavity. The external generalia and vulva are cleansed with a solution of one part Daling solution and ni lets nine parts oh e oil. By means of a large med cine dropper about 3 ir of this s lu to n are then introduced a to the vagina and held in for about two m nutes. This t eatment is adminis tered the weekly by the physician and the motheror nurse is instructed to administer it night and more ng For intensive treatment which is usually re quired toward the end of the ourse a large hely exstose pe with a cold lamp is used and applications are made to the cervix as in the adult

The s races of an efficient social service depair ment are ind spensable for the suc et ill mange ment of these cass. In a sense of 1000 of the eather cass the average duration of irretainer has twel eweek. The incident of recurrence has been of the properties of the surface of the surface when the properties of the surface has been of the properties of the surface has recently substituted a 2 per cent solution of mercurochrome. This hoever h is the dis adviantage that it stains

HARRY W. PINK M.D.

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Davi C H Weight in Pregnancy Its Value as a Routine Test Im J Ob t & Gy 1923 11 575

Of 150 cases reviewed thirty nine (a6 per cent) were those of multiparæ and 111 (74 per cent) those of primiparæ. The average gain during pregnancy was 21 lb (9 518 kgm) and the average weight of the babies was 7 lb 4 5 oz (3 3 kgm)

Seventy one of the women gained so lb or less the average was 15 gbl (70 x5 km). These include fiften multipara (21 per cent) and fifty six primip arm (77 per cent). The average weight of their babues was 6 lb. 15 oz. (1144 kgm). These women may be classifed as women of average multition MI of the babues were both alive but one died of crisingly is following circumcision.

Twenty-eight women gained between 20 and 25 to the average was 23 [b] (to 107 kgm) Of these nine were multipart [33] per cent) and naneteen primipara (b) per cent). The average weight of their babies was 8 lb (3 62 kgm). One babs was stillhorn because of concaste 1 prolapse of the cord. The largest baby in the series weight 1 of the cord. The largest baby in the series weight 1 of the 12 kgm 2 lb. The Market 1 C. The Market 1

Chat nl Severe Anæmla During Pregnancy Treatment by Repeated Blood Tran Iuslons Cure ('yn from d nefm gradlur und uegoses trim tpitrifn ngu tpélées guo) BIS d bi

The case reported was that of a para v 38 years of 1 who was in the astth month of pregnancy. On the patients a limitson to the ho pixel 10 it 1

On Voril 26 at lood transfusion of 500 ccm was green by the citizate method I II same amount was kreen by the citizate method I II same amount was transfused May 6 and ir; On May 14 th 5 pitch was dely 1 of a premature finant which ded very soon after burth Two other two fusions of 450 cm | 1140 dweer g | non May 10 and 10 Crail was soon after burth Was end 10 Crail was presented to be 10 the 10 the method of 10 the 10

The auth r classes the case of animma with those described by Havem. He blieves that it was of

toxic origin because the patient while pregnant suffered with severe comiting

Kahn M Chemical Changes in the Toxemia of Pregnancy \ 1 ork M J & M d Rec 1913

It is known that the towarms of pregnancy is associated with characteristic lessons in the liver and striking changes in the metabolism. Therefore it seems logical to assume that it is due to ruluure of the detoxicating function of the liver. One of the normal functions of the liver is to produce urea from the ammonia brought to it. Normally, only a small amount of free ammonia seages in the urine. The ratio of this ammonia mitrogen to the total nitrogen in the urine is the ammonia coefficient.

When the liver: not functioning properly at permits a greater amount of ammonia to escape the coefficient being increased. Because of the secondary indicates of the torium on the liddings a condition of nephritis is induced with the retention in the blood of arious non protein introgenous compounds such as urea creating and ure and. These substances are not the tora factors but in licate the presence of others which have a torse effect the presence of others which have a torse effect as a decrease in the allabil receive or acidoss this being a result of the torzimi rather than its cause.

Herzfeld B The Symptoms of Rupture of the Tube in Extra Uterine Pregnancy (/ r Sympt mat log d Tubencuptur b i Fxtr ut ring a 1 d12 t) Z t iBl f G a k 923 1 517

The shoulder pain as ociated with rupture of the tube described by Oeblecker and Dewes occurred in three of the author's cases. The pain in the right hypochondrum and I shoulder was so striking that in the differential diagnosis quite different conditions would have been considered if other characteristic symptoms had not plainly in I cyted the occurrence of tubal rupture.

The author attributes this phrenic symptom to irritation of the sensiti e fibers of the phrenic nerve by the blood e caping into the abdominal cavity. In his three cases the right tube was rup tured.

Another s gn ob erect by Herricid he calls the bladfer sup the woman has a lease to empty the bl Her and then suddenly collapses. This he explains by the assumption that the gravid tube about to jupiture surfacts the peritoneum and II deer an list replace is hastened by the increase in the intra abdominal pressure occurring luring urnation. In one of the authors cases an attack of violent pain with collapse was followed two hours lated two hours lated to manufactures and anura. Ophthalmoscopic examina too was negative. Renal function was restored six hours after operation but the urne contracel trace of albumin. The amurtors disappeared rifer four days. On the suith dry there was profuse durithen with imprurement of sepastion a temp rature of 3 4 degrees C and a pulse of 100 Death occurred on the ninth day from crudua weakness.

Hery (7)

Mundell J J A Ca e of Pregnancy in a Double Uterus (Uteru Didelphys) 1m J Obst & Gy 923 i 60

The case reported was that of a primigran's 1-2 cases of age. The valua appeared to be normal but when they were separated a vertical septum was demonstrated which the vagina into it to equal casatics extende tupto the vault of the vagina and was attached I broughout its cours. On the case of the case of

The patient went into labor at 5 a m August 8 1911 Casacean ection was don August 10 fifts six hours after the onset of labor. A male child weighing 6 lbs 0 oz was delivered. The patient had an uneyenful pure preum and was die charged from

the hospital on the seventeenth day

The operation re caled a normal tube and oursy coming off the right side of the right uters as I a normal tube and overy coming off the left side of the left uters in their normal situation. The right non pregarint uters as as the size of a doubted list and to down in the pelvis. The uters were connected only by the vaginal vault. A born! thick band of pertinoneum came off the signoid about 5 in above the vaginal wall passe! forwar! through the gry letteren the uter; and fused with if peritoneum

covering the bla lifer Mer the birth of the baby menstruation occurred for the first and only time on February 17 1922 when the patient again conceived Confinement was estimated to be due November 24 1912 The membranes ruptured at 10 30 p m December 7 1022 and pains began two hours later but because th y were slight the patient d d not notify Mundell until 9 30 o clock the rext morning December 8 She entered the hospital at it a m Upon examina tion one knee was found presenting through the cer vix well down into the vagina The s con leasare n section was done at 1 p m At this time the knee could be seen plainly by separating the labia Before the abdomen wa opened the knee and vagina were bathed with alcohol. The pregnancy was found to be n the same uterus as before. The uterine scar as smooth, and briefly vis ble though the mentum was adherent to a portion of it A female 1 fant weight g 7 lbs 7 oz was delivered. The second puerperium also was normal

FOR ARD L. COR TILL M D

Poeck E: Ti e Effect of Hydramnion upon the Life Expectancy of the Child (De B deut ng les llyd muon fu r die Lebens rwartu g les ki des) lie isch f Cb i h u Gy k 1993 ki 203

krabula found that in the cases of hydramiton at the Women a Hospital at Bonn the total mortality among the newborn was 60 2 per cent. This is in contrast to the previously accepted mortality of 25 per cent. Because of the frequent presence of devel opmental defects he considers it unnarranted to attempt to r duce the amount of amonite fluid

The author examined the material of the hoen go burg Women a Hospital In acute hadramon the prognouss for the ch I lis very poor. The mortality is greater in cases of tains. In the author scases 40 is per cent of the chilfen survived. Poech there fore considers it de trable to reduce the amount of the ammotic fluid by p oper treatment but he would. If child periodic of the shodominal will swood if finds periodic of the shodominal will killed the circulation in the placenta disturbed the circulation in the placenta disturbed the interns uptured or the vessely neced.

As causes diabetes of sea es of the ki new and syphilis are to be kept in min! In threatened premature birth opinies and chloral hy frate are recommende! Delivery must be accomplished with great care. The bag of waters should be ray tured with the finger during pains, and the fax ammotor duri! Particular ca e must be taken if the smaller parks present (unbilited) cord etc.

THYODOR (G)

Van ert J Col n B cilius Inf ction of the U inary Tract and Vagina Du ing Pregn ney (Inf ton lib lial d c u in es t d gan pend nt is gr esse) B il Soc dobt i d

gy & de Pa 93; 1 230

The subtar reports the case of a noman 22 seats old consupated since childhood wh. had her last old consupated since childhood wh. had her last sught sind had morning vomiting. In Apral he lost sught sind had morning vomiting. In Apral he had slight pain during and after mucturation the pains were in the urchira and loser abdomen. She complained also of frequency. Soon after muctu stion she had a slightly painful sensat on of retent on in the version urchira vollar is good.

On May 3 examination showed the uterus three fingers above the pubis. There was slight tender ness in the vesical reg on the lower pole of the right kidn y was somewhat tender and the temperature was 38 1 degrees C.

Treatment consisted of an enema hot pplications to the vesical lumb region and urinary anti-

Later the urnary symptoms impro ed but the constitution persisted Subsequently a history of leucorthea was obt med. F amin tion showed a purulent discharge with prinful ulceration at the site of the fourchette. The une showed a pur culture of colon bacult and the vaginal discharge colon bacult and Gram positive coccu

With the treatment mentioned the patient made an uneventful recovery until delivery Delivery was normal A slight attack of pyelonephritis fol lowed delivery Sallatore Di Palma M D

Ada r F L Some Observations on Placental Infarcts Am J Ob t & Gynec 1923 v1 552

The various types of white infarcts may be regarded as the end result of the same or different processes. In a broader way one might state that all localized degenerative changes in the placenta may represent different stages of the same process or of senarate and distinct processes.

One of the most striking changes seen in the placenta are these called red infarets or localized hemorrhape arevs II there are no subsequent changes in these areas one must conclude e the thought in the placenta is explicitly deposited by the placenta is represented by the placenta is the placenta in the placenta in the placenta is the placenta in the plac

1 That fibrinous or fibrous tissue in fairly homo geneous masses is the terminal stage of a degenera tive process

 That fresh hamorrhages or localized accumula tions of blood are the beginning of some pathologic process
 Unfortunately, they feeten do not be a feeten do no

Unfortunately these factors do not seem to account for all the beginnings or endings seen in these localized degenerative areas

The author summarizes his conclusions as follo is I All white infarcts do not fit into the same category Therefore they are probably due to different processes

2 The majority of the localized degenerative processes which are grouped under the term pla containifacts might lead to the formation of white infacts if a sufficient length of time elapsed between time of their occurrence and the delivery of the pheenta

3 A number of causes operate to produce such localized areas of legeneration in the placenta Among these may be mentioned vascular changes such as endurtentis penartentis and thrombos and localize I harmorthages resulting from static traumatic or toruc conditions

4 D sturbiness of the afferent blood supply may be responsible for atrophic cond t one resulting in degeneration of the areas supplied by these vessels S. In the causation of some of these degenera

Dubrowitsch E Statistics on the Treatm at of Febrile Aborti a (St t t sches zu \(\Gamma\) g de Beh dlu g des fi b h iten Abo tes) Z t tbl f Gy k 1923 lt 1327

Active treatment is attended by a higher mor bidity and mortality than expectant treatment. The

manner in which the uterus is emptied (by hand or with instruments) does not affect the mortality appreciably. The mortality is highest in the cases in which the operation is done previous to the patients admission to the hospital and in cross of criminal abortion. The higher the fever at the time treatment is sought the more unfavorable the course.

Snoo Cæsarean Section for Carcinoma of Both Ovaries and of the Uterine Cervix a ith

Both Ovaries and of the Uterline Cerviz vith Large Metastases in the Mesosigmoid (Section a real gen Carco on beider I erst ecke der Ce ute mit gros en Meta tassen im Mesos gm) V dri T jdi h r Veloik e Gynace 1923 xx os

A para in 23 years old was admitted to the clinic with the diagnosis of placenta pravia. Yerstrean section and supravaginal extigration of the uterus were done after the ammobic fluid hal escaped. A radical procedure was not to be thought of After four weeks the woman was dicharged in a satis factory condition in tid left four months later.

The carcinomata found in the overies and in the cervi were histologically the same. The growth in the cervix was probably primary. Metastases were found also in the omentum.

[AMERS (G)

LABOR AND ITS COMPLICATIONS

Keller R Non Rotation of the Head During Spontaneous Del very (L n rotat d la tête au urs d lac h ment pontané) Bull Soc dobi tid gyéc d Par 19 3 xu 335

The question of the internal rotation of the head during delivery has long been a sul ject of discussion by obstetricians

The author explains the normal mechanism of the rotation of the head and then discusses the two variations from the normal. Inverse rotation occurs:

(1) when the head is too small and (2) when the head is on the pelvic floor the result being deflexion instead of flexion.

Four cases are reported in a high normal rotation of the head had not occurred

Salvatore di Palha M D

Metzger and Legueu Dystocia Due to Rigidity of the Cervix After Radium Therapy for Cancer (Dy tone p r guidté ! l après curteibrape po r ca) Bull S c d b t l de gy c d Po

9 3 x 88
9 nes H and Cornil L Dystocia Due to Cica
tricial Stenosi of the Cerrix Following the
intracervical Application of Radium (Dystocie
p 16 ose 1 relic iu 1 nescuti e 1 un
pol cau na tra c 1 d rad m) B U S.c.

p té ose i i ielle lu l'i nécuti e à une ppl'atu n i tra c l' d' rad m) B ll S c d' bit i d' gy è d' P 1923 Xu 190 METZGER and L'EGLEU report the case of a woman

31 years old who had had a previous normal lelivery and was in the third month of another pregnancy Framination and biopsy revealed cancer of the cervix. Three months after the appl cation of radium the cervix was practically normal.

On lugust 15 1021 the pits in testificed to be clusted. After I berhalf on tion 1 for some time instrum ntation was leemed notes are on count of a filtou it go on the crix and ton legable relens. The crix was in use I on the anter; it in a theil is so were very hard resistant and whitish I trep were appl I and a clid to ghough 305 this was extracted.

The patient left the hispital on August of The inc.; 1 was then apparently heale! On June 28 1222 she came tack on account of sagnish farmothage. Examinationship effectivence (the male many), and the sagnificant state of the sagnificant state of

dition
\(\)\ \text{i vs an i (axii report ile cale of a woman 28 \text{ are of l with a history of micrarriage occurr g July 12 of The family threading act they tent a refum special to it retainent for fibr l

uterus 11e hagnos s w l'asel n metro rhagis. Is ting t nts d's

the March 1912 the patie t wa a limited it the ho jutal because of sign of abort on which lapping which the holist control to the things of the holist control to the holist con

The auth shelice that no ca of thro lut ru should be treated with ralum without previous exam ution by a competent surgeon or better can and that the lung rof seletous resulting from ralum treatment should be borne in mind while young women are treated for mitterfugia.

Sun to a printer Min

Mennet J. The Method lift et and Donger of the Administration of Pitulitins in Obstatics (An only W. kong i Gesch in i Hyr the enmediction of Court hill) Sheetand W. h. h. 1, 3 | 1 | 540

In this art cle the authors 1 st se is not occur tribute mith ginew but to ever for the general fractitioner cert if cts which have long been kn wn to the special tand to it cusher results of the intrase not a for it is not stutten.

In cases in which the laid riphins are week in riphin is rmill. Hefore, the putuation in feeting use the uterus air to the the cost of the right with the pituition in order to the right gueen greeting committee with the cool of the right with the ri

effect all the j tuiting. The author less m t the intraven usingectly not pitu trin in the set of stage of libor as the j fiver m collected j cap and itsee a cree of sec to show it good r ulty. It is hill be re-orted to show it good r ulty. It is hill be re-orted to show it good r ulty. It is hill be re-orted to show it good r ulty. It is his consecution on the most of firms a bootical in the libority of the set of the libority of the set of the library of the library

ference of the heal has passe life narrowest portinof the peli (3) in the thirlstage of low and (4) in cases of at neuteru, in order the cause context to not the uterus before them reasons acting ergot has hall time to the effect.

McCord J R Meddlesome Obstetrics 5 1 orb

The author urges greater conservatism in obstet it is and on the law of a large experience gives the

f Il ming rules an I conclusions
1 Le ru thor ughly the mechan im of labor
2 New runt riere with any labor that is pro-

- gree ing n rmally. A slow I bor is not an abn rmal labor.

 I A full I la II t is the most comm n cause of
- 4 Intuitini a langero s lrug
- 5 Do n t ruj ture the m mi ranes rtife lls 6 Ir eti eo lucting labors ès ab i minal ex
- aminati n
 7 Conserve the a 1 t mical p rts.
- S A great r number of women in labor n d
- o Manual of tat in an leffacement of the cersix; not possible
- to Freat exciput poster r posti is expectantly as I ng as you think it possible to do so and then
- is a little longer

 is a Nersion perform d for hemorrhage through
 an unil ted and unefface forms in a not be
- ty Man go the thirl stag of labor patiently
- 13 Supple trouble always precedes a breast
 - ta Douches ar nt a in l cate !
- 15 Apply forceps only after I I berati n never too a n
 16 Ai lent m thods are no or necessary in th
- resuscitate n of the newborn
 C He E J r MD

II lmes R W Te R I tin hip of Ut ropi central Apoplexy t Abi tio II centre im J

In the arrice the auth r summatizes the information den elfe matten have on twenty-occasion from autour lectachment i the normall stusted plenta a local output lectachment is the normall stusted plenta a local output lectachment is a considerable and per students and gest the impression he of the I from a still lines in too; the sixty number of texture students are pleasy compile by Wilson the reports of II rear near 12 at 10 at

at the Store of terraity Host tall Numbers other caser; it were real making the motore is edulous 1900.

The present tat four knowling remits a charleful of the survey of each tall homographic.

The present tat four knowling permits a lastife to of the cuspoof actil ntal hæmor thing (1) that the total legenerate or infla smators changes in the uterus

placenta and decidua and (3) that due to systemic or toxemic conditions. The first type is often associated with one of the others. The relationships of the second and third have not been determined

The symptomatic differentiation of the three types has not been determined. The symptoms are identical but two extraneous findings may contribute to a strong presumptive diagno is of the tovernic form viz systemic signs of toxernia (albuminuria increased blood pressure blood chemistry) and remarkable har lness of the uterus

Ten eness of the uterine wall is not an invitable concomitant of ordinary ablatio plycentar for it wa note lin only o per cent of 366 cases reviewed. In cases of ordinary ablatio placentar the consistency of the uterius varies from rigility to extreme flac edity. Extreme rightly of the uterius all may be a pathogonomous using of loxemic typely "V. Door on inspection of the uterius."

Irrespective of the etology of the accidental hemorrhage the blood may be absolutely or relatively concealed. Absolute concealment mean that mechanical hindrances preven the escape of blood. When canalization takes place between the uterus and the placenta and membranes the blool appears externally this; the relative the concealed it yee of hemorrhage. The one and noyl difference bet een the two forms mentioned; the evidence of external hemorrhage.

Too often accidental harmorrha e is di gnosed only when external ble dung appears either promptly after the onset of the condition or after main, hour of absolute concealment Delay in r cognition i responsible for the higher death rate in ases of absolute oncealment.

As emess faintness loss of consciousness and abdominal discomfort are the common early symptoms of ablatio their occurrence in a woman in advanced pregnancy should arouse the suspicion of premature detachment

The syndrome of celamp as smark dis different from that of toxeme apoplery. So far as a e now know the pathologic findings in the li er lone show many characteristic differences. The coincident attack of celampsis and toxemic apoplery strongly su gests that the intense posons are liberated which produce diverse symptoms.

Frompt recognition of abbits determines a line worshe outcome more than any part cular method of delivery found in case may be treated best by vaginal delivery for the best results are obtained by depted idilatation. The best results are obtained by digital dilatation. The best results are obtained by digital dilatation. The less results are obtained with the distribution of the control of the control of the control of the control of the condition. The couline removal of the uter s in cases of the condition. The routine removal of the uter s in cases of the towards type is to be deprecated Hysterection which the uter was control of the condition. The routine removal of the uter s in cases of the towards type is to be deprecated Hysterection whould be reserved off or cases in which the uterus does not retract and for those with possible infection.

The mortality based on cases collected from the literature is too high Early recognition of the conficient with prompt delivery should reduce it to from 5 to 10 per cent FDWARD L CORNELL M.D.

The author urges that more cases of abruptio placents be reported in order that the incidence of the condition may be determined. The case reported in this article was that of a 24 year-old primpara who last menstruated September 22 19 0 On April 20 to a m she caught her arm between a door and the door frame and became hysterical. She succeed din freeing her arm only after consi terable effort and struggle. Except for nervousness she experience in oil effects until Thurs Iny at 10 20 a m when she complained of severe puin in the back. This was followed by abdominal pain.

Lyammation revealed about one finger dilatation of the uterine cervix. Vt.3 pp m a severe harmor thage occurred. The bleeding gradually dimini hed and at 7 pm it ceased but the patient continued to complain of pain in upper abdomen and on the afternoon of April 23 she had a temperature of 103 degrees F. The following day, her temperature was coandher pul e 13 gand of smally olime. The uter us was round hard and wood. There was a cervical easily discernible. Viscultation revealed no fetal heart tones or movements. A diagnosis of abruptio placente va sa made

Attempts at gentle d gital dilatation made under ether anæsthesia were unsuccessful. An ampoule of pituitrin was therefore given hypodermically a self retainer w s inserted into the vagina and the cervix brought lo n with a volsella Two traction sutures vere inserted in the anterior cervical hip and the cervix was pulled down so that a transverse incision could be made through the mucous membrane over the anterior surface of the vagina. The bladder was pushed back and a longitudinal incis on then made extending up through the wall of the cervix Thi allowed ample room for the immediate application of forceps to the fetal head. The fetus had been dead about three days When the placenta and membranes had been delivered a large quantity of black gum mous blood and blood clots escaped The wound were closed in the usual manner a drain being placed in the cervical canal and a small pack in the vagina Another hypodermic of pituitrin was then given and the patient put to bed with a Murphy drip of normal salt solution and black coffee Uneventful recovery followed HARRY W FINK M D

The osseous girdle of the pelvic basin during de livery may rupture at the level of a single articula tion leaving all the others intact but generally if dis location of one of the three articulations occurs the others give way more or less. The rupture may be complete or incomplete. It may be at the le el of the fibrocartilage or at the point of its Insertion to the os pul is

Only six cases of spontaneous runture of the articulations of the pelvis have been observed in six

vents in Keller's chine

The pre lispo ing cruses given are rickets osteo malacia relaxation of the ligam ats during preg nan advance I age and a large number of pre vious pregnanci s Spontaneous rupture of these atticulations may occur with the force acting at the level of the superior stratest the time of internal rotation of the head or at the level of the inferior strut at the time of the birth of the hen I

In the six ca es observed the rui ture occurred three times at the symphysis pul a twice at the sacro than articulation and once at both the symphysis t ubis and at the sacro iliac arti ulations S CLANGE DE I LUE M D

Pettersson A S C mplete Cl cul r Avulsi n of the Po the laginglis Du ing Labor (\ li t e ig rkular Alr ug!rl ti gin ! (lut) Mo iich f Gb ih # G ak

Circular avul ion of the portio vaginalis during labor is very rare. Only twelve cases have been re-

ported in the literature The most common cause of this complicate n is a

large letus ith a hard head. The injury has oc curred only in ases of head presentation the time of rupture of the big of waters is of any im portance or not has not been determined In the ca es reporte i by the author in this article

the labor par s were extremely severe throughout the laber and the labor trauma we of long dura tion Labor terminate I spontaneou ly in only four cases Hamorrhage lid not occur The con I tions to which the injury has been asembe I are disturb ances of the circulation dependent upon mechanical causes sero ang unous infiltration an I rigid ty (see ondary) In all except three cases the outcome was favorable Nothing is known concerning subsequent Libors

The pro-nosis for the child is poor. In only two cases was the child born alive One of the cases as that of a 38 year old prin ipira. The big of waters ruptured after four lays of labor pains and four hours later a f reeps lel very was nece sary because of asphyxia The child weighed 9 000 gm It was deer ly asphyxiated but was resuscitated. The torn off portio vaginal's followe I spontaneously A cir cular portion of the tissue cover d the child's head like a cap Pathological examination evealed marke I infiltration of polynuclear leucocytes which is to be regarded as inflammation due to irritat on The patient was discharged as cured on the thir I rixt (G) teenth day

Schwab I : Ti e Treatment of Perforation of the Uterus (fur Frage dr Bh ndlu g der Ut ru perfor ti) Z i ibl f Gr et 19 3 xl i 1451

Nine cas s of perforation of the gravid uterus during abortion are reported.

At one point near the site of the perforation microscopic examination revealed a markedly wide progression of the tufts of the placenta into the myometrium and almost to the peritoneal covering of the uterus

Conservative therapy is in i cated if the injury to the uterus is asept c and uncomplicated if the uterus s known to be free from infected abortive materi I and if the preforsting wound is so small that there is no langer of severe hamorrh ge into the abilomin I cas ty. In every case of severe hæmorrhage an i threatened infects n as well a in cases in which there is the alghtest suspicion of injury to neighboring organs exploratory laparot omy is in I cate! Further therapeutic measures such as extirpation supravaginal amputation of suturing depend upon the exigencies I the case

It is very important to ha e a physician assigned to the case who will keep a thorough and compre HI SCH ERG (G)

hensive reco 1

D Saint Blaise Metze r and Le Lori r Discu sion of M thods of I rocedure in Retenti 1 f Membranes (Co I to a t ir lans I et nt des memb) B il Soc do51 i d gynl d

S INT BLAISE is of the opinion that in c ses of retention of membranes immediate interference is warrante I providing the cales are at term or near term He believes that everything pos 11 should be done to avoid this con lit on but if ther is re tenti n he feels that immed ate interference with either a gloved han I or a dull currette is indicated Of \$47 patients tre ted during 192 and 192 for re tention of membranes 100 h I f ver but only one ded of a severe infection. No phlegmasia was observed

All of the women were beyond the sixth month of gestation

METZCER on the contrary believes in non-interference as he thinks that interference opens avenues for infection. He e erely condemns interference in al o priv te pract ce b cau e asept c conditions can not be mainta ne leve in the homes of patients n moderate circumstances. He states that in properly sele f i cases in hospitals good r sults may be obtained by intersention but in his struce th results have been mo e than satisfa tors without it One rea. n for n t interf ring immelately is the lift culty in separat ng the membranes their separa tion after caratrean ection an example Statistics are given to prove th t t mper tures are higher with inter enti a than ithout t

Le Lorier is in a cord with Metzge consi leting contine inter ention for postpartum retained mem branes as very dangerous. While he admits that in a well conducted hospital with expert care it may give satisfactory results it is not a method to be generally adopted Saliatore di Palma M D

PUERPERIUM AND ITS COMPLICATIONS

Rouvier J M S vere Puerperal Felampsia with 40 Grams of Albumin Treated by I arge Doses of Morphine Early Diuresis Cure (E I mp e puerpér I g a avec 40 gr mmes d'ibumi tra tem t p r la morphi e à d' a m sus est est est adju a ts retour précoc de I duurè e guérs n) B II S e dobt i 1 dg pé de Pa 1933 mi 2 7

The author reports the case of a para it 2, years old who was admitted to the hospitals with ectuaptic convulsions and in coma Examination showed amissra cyanous and sterrorous respiration. The temperature was 37 degrees C the pulle 100 and the respiration 36 per minute. On catheterization 120 ccm of urine were obtained and examination showed 40 gm of albumin to the liter.

Treatment consisted of stomach Iwage intestinal lavage and the administration of morphine 3 cgm being given immediately and 1 cgm every half too me hour thereafter for four doses. In this interval there were three celamptic seizures each lasting about three minutes.

About an hour and a half after the last injection another eclamptic seizure lasting about ten minutes occurred. One centigram of morphine was injected two minutes after this seizure.

Signs of pulmonary ordema became apparent \(^1\) vensection was performed and 450 c cm of blood were removed. One centigram of morphine was given from munits after vensection and four more injectious of cgm were given during the next few hours making a total of 12 cgm in theleve hours. The patient gradually improved and labor began nor mally. To avoid shock a forcept settraction was performed. The next day the unine measured 1 octm and contained only 6 gm of albumin cfm and the measured 1 cm and contained only 6 gm of albumin command the measured 1 cm and contained only 6 gm of albumin command the measured 1 cm and contained only 6 gm of albumin command contained contained

The patient impro ed until December 13 when she developed pneumonia this resol ed She left the hospital on January 1

The author ad ocates large doses of morphine besides the usual measures in the treatment of this condition Salvatore of Palma M.D.

Grage t O The Puerperal Morbidity in Cases of Trichomonas Colpits Untreated and Treat ed Bef re Delivery (W. ben'ett m i dit t bei ant partum ni hibeh delte u d t pa tum be hand liten Faell n Tr hom denk lpt) M at suh f G b ish Gy k 9 3 l iv 37

Following Liss in his development of Hoehne's proposal the author has given the antepartum vagi and treatment with douches of bichloride of mercury and 10 per cent boroglycerin in every, case in which the vaginal secretion was found to contain tricho monas

Of 312 to omen delivered 249 were free from tricho monas a pronounced trichomonas colpits was present in fifty five Of the latter thirty nine were

free from trichomonas up to the time of delivery. The total puerperal morbidity in cases without trichomonas amounted to 113 per cent. In cases of trichomonas colpitis not treated antepartum was 301 per cent in the treated cases only 164 per cent and in the cases that became negative after treatment only 77 per cent.

As a result of internal examinations in the presence of a discharge containing trichomonas the morbidity increases and is highest after operative deliveries

In most of the cases a cure of the colpitis is possible with the Hoehne treatment provided it i continued sufficiently long STRANOSCH (G)

Liss W. The Influence of Trichomonas Colpit s upon Puerperal Morbidity (Dr r End of T homonadeak lpts auf di W. I nhettsmor b ditaet) W. is chr f G b. ish. Gyn. ck. 1923 ltw. 3

The author regards trichomonas colputs (Hochne) as a diease entity. The effect of the tuchomonas colputs upon the puerperal morbidity was miestigated in 495 cases. In 336 of the cases conditions in the genitals were normal in sevently mine cases (195 per cent) there was more or less pronounced trichomonas colputs this was not treated. In the normal cases there was a puerperal morbidity of 15 per cent with no deaths while in the sevently mine carriers of trichomonas there was a total morbidity of 20 1 per cent.

The disturbances during the puerperalum were

considerably greater after internal examinations and operative deliveries STRAKOSCN (G)

Voron J Durand P Sédallian P Rema ks on tle Hiology of Puerpe al Infections (N te u lét I ge d li fect n pue pl al) Pill S c d b l td gy d P 19 3 11 3 7

In a bacteriological study which is as yet incomplete the authors have found that all puerperal infections are not due to the same strain of strepto coccus

Of eighteen cases of streptococcus infection coming from the same service eleven were classified as be longing to the same strain and three to a different strain. In the eleven cases due to the same strain infections occurred in patients in whom no cause of contamnation could be found.

During the year the same strain of streptococcus infected patients of the same service several months intervening between outbreaks. One of these infections occurred in March 1922 two in April 1922 one in August 1922 one in September 192 one in October 1922 and one in March 1923

After discussing the possible sources of infection and eliminating most of them the authors conclude that probably carriers harbor these germs in the throat. However they are not prepared to prove this statement and will report more fully the result of their research in later articles.

SALVATORE DI PALMA M D

tion leaving all the others intact but generally if dis location of one of the three articulations occurs the others give a sy more or less. The rupture may be complete or incomplete. It may be at the level of the file recartilage or at the point of its insertion to

the os pubis
Only six er es of spontaneous rupture of the ar
ticulations of the pelvis have been observed in six

years in Keller's clinic

The pre! posing cuises given are rickets osteo maintais relaxition of the light ments during pregnancy a hance! age and a large number of pressous pregnances. Pondancous rug ture of these articultions may occur with the force acting at the level of the superior straint at the time of internal rotation of the head or at the level of the head of a straint at the time of the bath of the head.

In the six cases observ 1 the rupture occurred three times at the symphysis pubic twice at the sacro il a articulation and once at both the symphysis pubic and at the sacro iliae articulations

SALVANCE DI PALMA M.D.

Pettersso A.S. Complete Circul r Avul lon of the Portio Anginalis Du ling Labor (V. lit. ndge r that lee Al. ug dr. P. lit. g. l. 1. dr. C. lut.) Work tack f b. b. th. u.b. k. 1924.

Circular a ulsion of the portio vaginal's datirs labor is very rare. Only twelve cases have been reported in the literature.

The m st common cau e of the complication is a large fetus with a hard head. The injury has occurred only in ear es of head presentation. Wheth a the time of ruf ture of the big of waters is of any importance or not h a not be in determined.

In the cases reported by the author in this article habor pans were extremely severe throughout the labor and the lad or trauma was of long duration. Labor terminated postaneously in only four cases Harmorthige lid not occur. The conditions to which the injury has been ascribed are dit turf ances of the circulation depen left upon mechanical causes see conque nous infiltration and right (y see ondivis). In all except three cases the outcome was formally a horizoned by charged and the provided by the property of the provided by the provi

I hors
The prognosis (the child is poor In only tweases was the child born alive. One of the crea visits of a 35 year oil primipara. The big of waters rupture I after four drys of labor purss and four hours later a feccesp felicery as necessary because of asybysis. The child weight consists of asybysis. The child weight consists of a sybysis. The child weight consists of a sybysis of a sy

Schwab F: The Treatment of P efortion of the Uteru (Zur 1 g for Beh allung der Uteru p l at n) Z r lbl f 63 k 1923 xl-1

Aine cases of perforation of the gravil uterus during abortion are reported

At one point near the site of the perforation microscopic examination resided a markedly wide progression of the tutts of the phrents into the myometrium and almost to the peritoneal covering of the uters.

Conservative therapy is in locate 1 if the injusy to the uterus is aseptic an 10 momplicate 1 if the uterus is kn win to b fee from infect 1 thorities material and 1 the preforating woul is so small that there is no langer of severe harmorthice into the abdommut civily. In even cine of severe cases in which there is the slightest supmound cases in which there is the slightest supmound injury to neighboring organs exploratory laparotomy is indicated. Further therapeutic measures such as extirptation supervasqual amputation or

suturing depend upon the exigencies of the case. It is very important to have a physici in assigned to the c se who will keep a thorough and comprehensive record.

Hissoriera (6)

De Saint Bialve Metrger a d'Ex Lori r Discus al n of Methods of Procedure in R tention of Membranes (C 1 to 4 tr r dus 1 têt nt n d membranes) B ll Soc d bi i d gy ê de Pa 19 3 72

Saver Ildatse is of the opinion that in case of teenton of ment rans immediate interference is warranted providing the cases are at term or near term. He behave he shat even thing possible should be done to a void this con him. but if there is thet on he feels that time hate interference with either a gloved hand or a dull currette is indicated to 1347 patients treeted during out and 1073 for tenion. I membranes 100 had feel of but only 0.55 ceed.

All of the women were beyond the sixth month of

g st tion

METLER on the contrary believes in non inter
fe ence as he thinks that interference open sevenues
for indection. He see elve condemns interference in
also p ivite practi e becau e aseptic condition, can
not be mi talan le e en in the homes of patients in
moderate circum tances. He states that up roperly
see led cases in hospitals, good results may be
obtained by intervention but in h. s. c.
obtained by intervention but in h. s. c.
obtained by intervention but in h. s. c.
but in the contract of the contract of

Le Lorier is in accord with Metzge consider og routine intervention for postpa tum tet ned mem branes as very dangerous. While he admits that in a well conducted hospital with expert care it may give satisfactory results it is not a method to be generally adopted Salvatore of Palma M.D.

PUERPERIUM AND ITS COMPLICATIONS

Rourier J M Severe Puerperal Lelampsia with 40 Grams of Albumin Treated by Large Doses of Morphine Early Dioresis Cure (E lamp te juerpérale ga e avec 40 g amme d lbumine tanteme t.par la morph ne à doses in « e 1 ses adju ants retour p éc ce de la dut è gudin di B ill S c dobs 1 tel gypte d P 1933 un 7

The author reports the case of a para 11 22 years old who was admitted to the hospitals with clamptic convulsions and in coma Examination showed anasirac cyanosis and steriorous respiration. The temperature was 37 degrees C the pulle 100 and the respiration 36 per minute. On catheterization 110 ccm of urine were obtained and examination showed 40 pm of albumin to the liter.

Treatment consisted of stomach lavage intestinal lavage and the admin tration of morphine 3 cgm being given immediately and 1 cgm every half to one hour thereafter for four doses. In this interval there were three celamptic seizures each lasting about three monites.

About an hour and a half after the last injection another colamptic seizure lasting about ten minutes occurred. One centigram of morphine was injected two minutes after this seizure

Sugn of pulmonary cedema became apparent A creence to my secretary of the control of the control

The patient improved until December 13 when she developed pneumonia the resolved She left the hospital on January 1

The author advocates large doses of morphine besides the usual measures in the treatment of the condition

Salvatore of Palma M D

Gragert O The Puerperal Morbid ty in Ca es of Trichomonas Coppitis Unt eated and Treat ed Belore D lit vy (W heab itsm ld t t bei nite part m michtbeha delt n und a te pa tum b handelte F ll nv n Tri hom ad k lpiti) W ats h f Gb lik Gyn tk 923 | 37

Following Liss in his development of Hoehne's proposal the author has given the antepartum vagi and treatment with douches of bichloride of mercury and to per cent borogly cerin in every case in which the vaginal secretion was found to contain tricho monas

Of 312 women delivered 249 were free from tricho monas a pronounced trichomonas colpitis was present in fifty five Of the latter thirty nine were free from trichomonas up to the time of delivery. The total puerperal morbidity in cases without trichomonas amounted to 113 per cent. In cases of trichomonas colputs not treated antepartum it was 201 per cent. In the treated cases only 164 per cent and in the cases that became negative after treatment only 7, per cent.

Is a result of internal examinations in the presence of a discharge containing trichomonas the morbidity increases and is highest after operative deliveries

In most of the cases a cure of the colpits is possible with the Hoehne treatment provided it is continued sufficiently long Strakoscu (G)

L ss W The Influence of Trichomonas Colpitis upon Puerperal Morbidity (Dr Tr flus de Tr h monad k lp us uf due Wo henh tismor bdt t) Wo issch f Gebi i h u Gy ek 19 3

The author regards trichomonas colpitis (Hechne) as a disease entity. The effect of the trichomonas colpitis upon the puerperal morbidity was investigated in 405 cases. In 326 of the cases conditions in the genitals were normal in seventy mine cases (105 per cent) there was more of less pronounced trichomonas colpitis. This was not treated. In the first per cent with no deaths while in the seventy mire carriers of trichomonas there was a total morbidity of 20 per cent.

The disturbances during the puerperium were considerably greater after internal examinations and operative deliveries STRAKOSCH (G)

Voron J Durand P Sédall an P Remarks on the Etiology of Puerperal Infecti ns (Note ur lét l gue d'lind tion puerpé ale) B il Soc d'bl et d'gytée d'Par 9 3 3 7

In a bacter ological study which 1 as yet incomplete the authors have found that all puerperal in fections are not due to the same strain of strepto coccus

Of eighteen cases of streptococcus infection coming from the same service eleven were classified as be longing to the same strain and three to a different strain. In the eleven cases due to the same strain infections occurred in patients in whom no cause of contamination could be found.

During the year the same strain of streptococcus infected patients of the same service several months int rvening between outbreaks. One of these infections occurred in March 1922 two in April 1922 one in August 1922 one in September 1922 one in October 1922 and one in March 1923.

After discussing the possible sources of infection and eliminating most of them the authors conclude that probably carners harbor these germs in the throat. However they are not prepared to prove this statement and will report more fully the result of their research in later articles.

SALVATORE DI PALMA M D

Flierb ook N The Use of Continuous D ip Irri gation in Pu rperul Ferer (/ r lawe i gd r pem e ten T rei h i gat a bem ! rpe

ratif be) De t kend lifet is on all 721. Ellerbors, is of posed it Wagners in tho I of treating puerperal agis which con it is in Inparation in the treating puerperal agis which con it is in Inparation of the treating is a office it only in appulation of the treating is not confront to the mucrost but that it altacks all of the leeper layers of the uterus. Unfer certain con thousing the method may be very harmful in the hands of the general practitioner.

The most important factors in the his lling of puterprial lafections are prompties of action an accurate localization of the linitial focus of inf stone Dals too seldom is an inscitigation made in the proball is source of a rise, of temperature postpartum of the proball is source of a rise, of temperature postpartum of the proball is source of a rise, of temperature postpartum organs. When the infection is in the generative tract it may invole one of the following four rises of 1) the perianeum (2) the cersus (3) returned a cundings (4) the int rise of the uterus. Some of these infections remain localize 1 whill others spread very outself.

quacking case of the permeum infection occurs in are which have not been repaired and loss at the site of a pr many permeorrhal by. The chances for infection following repair are augmented by the exercisingly of the tissues an lay too tightly drivan suttres. If infection has set in all sutures shoull be removed and the torn surfaces kept from contact with e ch other by strongly antisept case gauge part ent should be placed in the extreme Fowl r position.

Infect one of the cervix are most serious for if neglected they lead to a generalized infection and sepitermia. Tears should be sought for more fre

quently

When the infection is due to retuned secundines the question of curettage arises. Saft id believes that if the uterus is explored or an atterpt is made to remove foreign material, this should be done with the hind rather than vith sharp instruments.

Infection of the inter or of the uterus u utily takes place at the placental size Carrel has kemon strated the value of irrigating the uterine cavity with po criul antisepties through glass tubes to prevent the sprea long of infection. The meth d is of value only in the early strages.

Wh n the infection spreads beyond the uteru the route may be through the endometrium lea ling to salpingitis or actits pelic abovess and perit nits. When it is spread by the lymphities pelic cellulitis and septicemia result. I ropagation by the blood stream is often followed by thrombophibetis; pixma and septicemia.

NEWBORN

Loriot A St fistical Study of the Length of the Umbilical Gord Bast don 1 900 Ct set at the Ob tetrical Clinic of Marsellies (Ft le tat tq l l gu do rd pot at cooc a l cl tt tt let l st sell) B il Soc d bit id gred d o sy to to

The length of the until cal corl of the fetur as term in the foun constant. It wares come length. Betw. in the extreme variations reported in the medical iderator the authors have observed that the length most fer quentif found flucturets around a certain figure. Tarn or Charteaut and Char pentit is giving 45 to 60 cm. Careaux 5, 46 to 9, 60 m. and Norgele 45 to 9, 40 m. The majority of modern and Norgele 45 to 9, 40 m. The majority of modern

obstetreians gi e the average length as 50 cm.
In the recent res vrch conducted 1 the Obstetre 1.
Clinic of Mar cilles 1 000 case at terms versuid ed.
In newborns | cghing at 1 st 3 kgm the author of the minimum 1 night was 23 cm, and the
maximum 95 cm. The length of the umb1 all cor 1
is shown in the following tall te.

Length	↑ mbe
CTR	of cases
10-3	3
30-40	5
4 50	90
50-60 60 70	536
00 70	57
.o-8a	6
80 90	:
90 00	7

The table shows that a more than half of the cases the corl is from 30 to be cent he as rag length is 6 cm and the corls ar fr quantly uncommonly log grather than 5 tr. This a counts also for the relative frequency frequency from the frequency frequency that the complete the constitution of the multiple department of the complete the constitution of the cases of the constitution of the cases of the

Of 13 infants weigh mg 4 000 gm on ore forty eight were the of prim; en lioig those of muluprite O bundeel a d fort eight vere white and four ere c let al the mothe s pel 3 m in 144 case ge crilly con and justomy o i the On the b s 1 th men strul blast is that in a light kin beginning to certain the color exactly at term at ghe this were jem tue four exactly at term at ghe this year.

Of the thirty see ninf is no just ght positive for p tion only tent e ritil spont neoully lattace the first lapont the politic in lift tag force p apply lattace p signal lattace p signal lattace politic in the force of the politic in lattace politic politic in lattace politic pol

Of the seventeen infants in the occuput left posterior position, fourteen rotated spontaneously and one was delivered by version. Two were delivered in the occiput left posterior position. One of these was severely bruised about the head and neck but recovered the other was stillborn

Of the fifty four infants in the occuput posterior position two were stillborn and to died within thirty six hours from birth injuries. Two received forceps injuries which resulted in abscess formation but recovered promptly Another received severe injuries behind both ears and apparently recovered after prolonged treatment, but since that time has shown muscle weaknesses and intracranial symp toms which indicate that it will be an invalid for life The occuput posterior po ition wa found to increase directly with the veight

The average length of labor as recorded in 144 cases was thirteen hours nineteen minutes. The primiparæ averaged nineteen hours fifty seven minutes and the multipart nine hours fifty five minutes

Ten fatalities made the infant mortality 6 s per cent In the second thousand deliveries at the Barnes Hospital St Louis of infants weighing over 2 500 gm the infant mortality was 2 16 per cent and in the private cases in the same series was only o 73 per cent

From the study of this serie of cases and a re view of the literature the follosing conclusions may be drawn

The delivery of large po tmature babies is difficult and associated with considerable danger of injury to the mother and a high infant mortality and morbidity

2 The large postmature infant is found in the occiput posterior position relatively often and 1 rotated less readily by the Scanzoni maneuver than

the infant of normal size 3 The cho ce of the method of effecting delivery is a greater problem and its execution more strenuous in the cases of postmature infants than in those of

infants of normal size 4 The cause of the prolongation of the period of gestation is not definitely known an overdeveloped fetus may be a predisposing factor

ED ARD L CO ELL M D

MISCELLANEOUS

Franki O The Relation Between the Placenta and the Sec etion of Milk Am J Ob : & Gy Abrams S F The Feed ng of Placental Extract

to Mothers Its Effect on Breast Fed Infants Am J Ob I & Gyn

Frank! states that in spite of many investigations the question of the relation of the placenta to lactation has remained unsolved though it is knot n that presumably in conjunction with ovarian func tion the placenta is respons ble for the hyperæmia and levelopment of the mammary glands du ing pregnancy and for the formation of colostrum True milk appears however only after the expulsion of the fetus. It is still to be determined whether the placenta while stimulating the breast gland simul taneously inhibits the secretion of milk. Obviously this question is closely connected with the question as to whether the placenta is an organ endowed with an endocrine function

351

That the fetus is not the deciding factor in the secretion of milk is proved by the occurrence of active lactation subsequent to the expulsion of a

hydatiform mole or a dead fetus

The influence of the nervous system on lactation cannot be regarded as decrave because normal function of the breasts has been observed in cases of complete tran yer e lesson of the cord and in animals normal secretion has occurred in mammæ successfully transplanted to other regions

To determine the validity of Halban's theory that the cau e of the chang of the secretion of colo trum into the secretion of milk i the loss of the placenta. Frankl transplanted the placente of mice within ten or twelve days of full term to the backs of other mice in approximately the same stage of pregnancy The results were as follows Mice from a strain known to be able to suckle their

young satisfactorily bore litters of five or six newborn mice s ere normal in appearance and im mediately began to suckle Invariably however they died within five to seven days evidently from starvation

Investigation demon trated that the mamma of the mother animal were secreting colostrum instead of milk When the transplantation vas unsuccess ful lactation proceeded normally

Therefore t is evident that the successful trans plantation of a placenta to a pregnant animal causes persistence of colostrum secretion

This ability of the placenta to prepare the breast luring pregnancy for its secretors function and at the same time to inhibit its actual function has its perfect analogy in the function of the corpus luteum

ABRAMS reports the effects of feeding desiccated placenta in a series of seventy six cases at the St Louis Hospital Markedly abnormal cases such as those of puerperal infection with a high tempera ture and those of mothers with babies so premature and small that they were unable to nurse were excluded

On account of the impossibility of forecasting the supply of milk it was very difficult to interpret the results It seemed best therefore to compare a fairly large group of women with another group h ch did not receive placental t ssue but shose care and food we e otherwise the same The infants of the mothers who were given the placental tissue are classed as Group 1 and the oth rs as Group 2

The average weight of the infants of Group 1 v as 3 278 gm while that of the infants of Group 2 was 3 339 gm Accord ngly there was a difference of 61

gm

The average i itial loss of weight in Croup 1 was 243 gm and in Group 2 314 gm. Therefore while the average weight in the two groups was about the same the initial loss was greater in Croup 2.

In checking the amount of grun in Croup 1 the author was surpose to find that although a gre ter number of 1 ab 3 regained their birth neighb by the tenth lay the amount of the galn was less thin in Croup 2. The average gain in Croup 1 was 57 gm and 1 that in Croup 2 142 gm. By the tenth day 407 per cent of the infinits in the first group hat regained their we git but only as per cent of these

in the second group

The claim that the moth resulk comes in soon
er if the placenta is fed before delivery was not

substantiate L

There is however some difference in the time at which the bites begin to guin weight. Taking the fourth and lifth lays together 86 per cint of the infants of Group r and only 63 per cent of those

of Croup 2 game I weight Saty and three tenths per cent of those in Croup 2 began to g in weight on the fourth day of I fe I ut nly 30 per cent of those

of Cr up 2

These two series of of servations closely resemble

those of Cornell and I an Hoosen. Although they show that placental med cat on influences eith r the milk secretion or the immedite growth of the mifant it is even that neither a true galactagogue nor the chi f stimulus of milk secretion. Ass been discovered in drief placental its use. The results have not teen suffered by d finite. Wherm he heves that if the placentals creation furly stimulated these them to the control of the placentals created on a milk the feeding of I great amounts the II produce of standily apparent effects in most control of the placental or the control of the placental or the control of the placental or the control of the control of

In conclusion Abrams states that the best stimulus to mlk secretion so far discovered is a lige hungry baby and a co-operating mother

LOWARD L. CO ELL M D

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Rehn E and Guenzburg L Functional kidnes D agnosis with Respect to Bod ly Reaction (Funktio elle Niere d gn tk m tko ripereigenen Reagenzi n) kl li husch 923 ii 19

The authors show that indigo carmin 1 excreted more rapidly in an alkaline urine after the intra venous injection of sodium hicarbonate. On this hypothesis they attempted to determine the value of the accommodation of the kidney to different teachings as an indication of renal function.

The examination was made in the morning on a lawing stomach to drops of dilute hydrochloric acid in long not 10,000 cm of water having being and in long not 10,000 cm of water having being control of the more than the hydrochloric acid the hydrochloric morning that the hydrochloric morning that the hydrochloric morning that the method of Urchaela (with indicators) go, cm of a per cent of the hydrochloric morning that the method of Urchaela (with indicators) go, cm of a per cent in tax-enously and the urne was morning that the method of Urchaela (with indicators) go, cm of a per cent in the control of the morning that the mornin

The results were as follows. The di cased kindey accommodated itself more slowly to the production of alkaline unne the rapidity in general corresponding to the exerction of dyestids. There was a far reach ing parallelism between the changing capacity of a kindry and the concentration of the urea in the wine produced by it. The conditions of the test must be fulfilled accurately.

Senser (G)

hretschmer H L Py 1 tis of Pregnancy J im

3 M As 19 3 1 585
Falls F H Pyelitis of Pregnancy J im W

As 19 3 lt 1 500

ARTISCHUER Re less the reports of others and cites the results in tex nty five of his own cases intestinal stass and dilatat on of the ureter and renal pelin with resulting unnary stasss he regards at important predisposing causes of pyelist during percainary. He has found that lavage of the percains of the has found that lavage of the processor of the percains of the pregnancy are cent silver intract solution gives good results are consistent of the pregnancy is probably indicated. Surgical procedures such a nephrotomy and reported may are rared if ever justified.

FALLS after re sewing the literature reports the results in forty cases and dra s the following conclusions

The bladder of the normal pregnant oman contains a certain amount of residual urin plus in most cases colon bacilli or staphy lococci or both

Dilatation of the ureter and orderna f the mucosa of the bladder and ureter with antiperist lite action of the ureter probably play an important part in the causation of pychiis of pregnancy

Bacteriolysins and agglutinins are increased in the blood of most women who are reacting chin cally to this infection and these antibodies are transmitted to the fetus

This acquired immunity has an important bearing on the failure of these patients to develop puerperal

Casarean section should not be practiced to avoid contamination of the uteru by infected urine except possibly in cases in which failure of the usual antibody formation can be demonstrated

The condition is associated with a considerable loss of weight

A low leucocytosis and a moderately severe

secondary anemia are commonly seen in this in

fection
Dilatation of the ureter: the rule in such patients
but usually decreases after pregnancy

Recurrence of the symptoms may be totally absent in ucceeding pregnancies. This may be due to immunity developed during the primary pregnancy.

The progno is for the fetus is not very favorable

OCAR E NAPEAU ND

Hirst J C. The Treatment of Pyelitis by Ureteral Catheterization and In tillation of the kidney Pel is \ 1 o k M J G M d R 1923 c 11

Until recently pyelitis was rarely diagnosed correctly. The bacteria causing the condition are usually the colon bacilli. The symptoms are fever and pain in the lumbar region a polymorphonuclear leucocytosis and pyuria Some cises are chronic from the beginning The pain a dull ache with exicerbations is constant in acute cases and is intensifed by bimanual pressure. The second point of pain is where the ureter cros e the pelvic brim this simulates appendiceal pain. Women should never be operated upon for such pain until they have been gi en a cystoscopic examination Tender ness is usually noted on vaginal palpation at the point where the ureter enters the bladder. The stoscope will sho a triangular area of crosion with the point at the ureteral mouth and the ureter will spout clou ly urine

 symptoms it is wise to repeat the treatment once or twice. In pregnancy pychitis is nearly always acute As these cases react well to the instillation treatment the induction of labor is not necessary In children one instillation of from 2 to 5 ccm is suff cient

The author employs the Brown Buerger cysto score After use it is washed in water sterilized in alcohol and ether and kept in a jar with pow lered formaldehyde BENJ MIN F ROLLER M D

Smitten 1 G Tran plantation of the Ureter Into the Rectum (U ber Ureterentran pla tati n In das Rectum) le handl d R : Ch Aone Petrograd 1923

Urinary fistulæ are observed much more fre quently in Russia than in western Furopean coun Therefore implantation of the ureter into the rectum is done more frequently by Russian surgeons than by those of western Furone Beules the typical Maydl operation which often is impossible simple implantation of the ureter is done

The author reports three cases of his own. In the first a case of cancer of the uterus parametrium and urinary bladder death occurred from eachexia at the end of two weeks. In the second a case of cancer of the urmary blad ler death resulted from peritonitis at the end of seven days. In the third a case of destruction of the vesicovaginal wall by gangrene following typhus the patient survi ed the operation by two years

Good permanent results were reported by Tichoff from one to three years after the operation by Alexandroff after nine years by I ederoff after fi e years by Oppel after two and one half ye rs and by Morosowa of Ladjan's clinic after two years

In the discussion of Smitten's paper Opper of Petrograd stated that he operates according to Tichoil's method. Ascending infection after the operation is not always avoidable but the body is able to deal successfully with an infection of law virulence. In order to prevent infection everything must be done at operation to prevent subsequent kinking and stricture of the ureter

MIROTWORZEW of Laratoff referred to nine cases of implantation of the ureter into the intestine which he had not reported previously. He stated that while Maydl's operation gives good results it is not always possible and is attended by greater trauma

and immediate danger than simple implantation of the isolated ureter

LISSONSKAIA of Petrograd reported seven cases of implantation of the ureter into the pelvic colon Death resulted in two cases-in one from purulent pyelonephritis and in the other from peritonitis in two cases in which an autogenous vaccine of bacillus coli was employed prior to operation the postoperative course was favorable. In one case which was under observation for two years there was no evidence of disea e of the kidney TANKLDAROFF of Petrograd stated that the Maydl

operation which conserves the tonus of the ureteral

openings is preferable to simple implantation of the isolate i ureters into the intestine its chief dis advantage being that it is not always possible. According to the technique used by him the ureters are embedled in 2-cm. incisions made in the in testinal wall down to the mucosa and the mucosa is then incised. This having been done the seromuscularis is sutured over the preters, the suture taking in the ureteral wall and the purietal peri toneum is suture I over all

MARTY NOW of Mos on reported four cases of implyntation of the prefers into the sigmo I flexure Death occurred in one case but in three the opera tion was successful. GRELORY (Z)

BLADDER LRETHRA AND PENIS

Wichnewski A W: Operatic Treatment of Stricture of the Urethra by the Formation of a Canalized Ur thrain Cleatricial Tis u (Ope a t e ll ha flu g d Strit ta u th e durch lt ldu g et er m beng w be k alsue t n t thra) I erhandi d K s Chr k ng Petrograd 1923

By means of an arch shape I prerectal incis on the perincal portion of the ureth a is expo ed down to the prostate. At the middle of the prerectal incision a long tud nal incision is made to the root of the scrotum. The character and size of the stra ture are det rmined by the introduction of a austable bougie The stricture is exci, d The thickest possible elastic catheter is then introduced into the bladder and left in place as a retention catheter A suprapubic incision is then made. A thick long silk I gature is carried from the bladder through the catheter to facilitate its replacement following removal

In the closure of the wound an opening is left at the juncture of the arch shaped incision 1th the longitudinal incision and through this opening a fine catheter is introduced to the catheter in the urethra The retention catheter is left in place for a month. This is possible because the secretion is carried off through the drain and not through the anterior opening of the urethra. After a month a permanent canal has been form d around the catheter

Ten nationts with impenetrable strictures of the urethra vere treated in this manner. The results were good. Subsequently a bouge was introduced every now and then The author considers as cured those cases in which the caliber of the newly formed canal is maintained for two months

GREGORY (Z)

GENITAL ORGANS

Wilensky A O and Samuel S S Acute Defer entiti and Funiculitis As S r 10 3 laxvu 745

Funicultis and deferentitis are differentiated anatomically by the fact that the spermatic cord extends only from the internal abdominal ring to the testicle while the vas deferens—its main con stituent—extend through the internal abdominal ring along the lateral pelvic wall to the base of the

Acute deferentits and funicultis may be classified into three mun types (r) that of acute gonorrhocal origin () that due to streptococcus infection (en demic in tropical countries) and (3) that of in determinate origin with and without abscess forma

Two cases of the third group are described Both were operated upon and in both there was unevent

Among the etiological factors to be considered in the cases are (1) trauma (2) a precursing in the cases are (2) trauma (3) a precursing in the cases are as the interest of the case of the panetry of climical and labors tory evidence. There also was a previous middle ear infection but as smus thrombosis did not occur there was no climical evidence of such a complication in the strond case reported the importance of a Sonococcus infection, that they was ettimently problematical.

In the differential diagnosis the following conditions must be borne in mind abscess of the abdominal wall irreducible hermal appendictis with abscess abscess in a hermal sac thrombosis of varicose verns of the cord harmatoma of the cord

tuberculosis of the vas deferens gumma of the cord neoply m of the cord or in the inguinal canal osteo myclitis or infected neoplasm of the os pubis and reoas abscess

In gonorrheral cases without pus formation operative interference is contra indicated. When pus has formed however adequate missions of the contract of the co

MISCELLANEOUS

Woltaschewsky J B The Treatment of Disturb ances of Urination with Magnesium Sulphate (Ueber die Behandlu g der Hr nil erungsstoeru g n durch sch el Isaures VI gn s um) Noey ch Arch 10 3 u 20

From observations made in the climic the author finds that monthinene and retention of urne which depend upon diseases of the spinal cord as well as postoperative retention of urne can be cured by the subcutaneous injection of 25 per cent magnesium sulphate solution (10 to 1 5 cm per dose). This treatment gives good results also in cases of in continence of spastic origin in postoperative retention of frees and in cases in which purgatives can not be given by mouth.

Sec. (Z)

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Herlf F P: Clant Cell Tumor J Am M 4ss

1923 122 1179

In the treatment of home neoplasms the tendency is town't consers atam. Disagreement is due to the comparative infrequency of such tumors failure to correlate the X-ray Fudings with the clinical and correlate the X-ray Fudings with the clinical and the tendency of the t

Certain cell arrangements enhib t dissimilar ten I encies in hillerent locitions. For example Bloot good has demonstrated that myzomatous tissue found in neoplasms of the long pipe bones indicates a high degree of miligrancy whereas this is not the case when the tissue is found in the phalances of the feet or the hands

Doubtful excess hould be treate Hor stybils even when the Was erminn test is negative. In X-ray examinat on should be made of the langs. Bone hyperplasiva ser more, and to be beings than mally nant. I ceft cation of the capsule of a central growth is suggestive but not insamoute of malginancy Spontaneous fracture in highly suggestive of bone neptlasms. When it occurs before the affectably early the company of the company o

Lesions beginning on the cartilaginous surfaces of the joints are nearly at a ys influematory tuber culous or syph lite. Systematic N ray eximination and treatments should always follow the removal of a bone tumor whether it is malignant or beingniant cell tumo s usually develop after trauma.

occur usually between the ages of 20 and 30 years nd as a rule are central and locate I near an epiph

ysis They seldom form metastases

The giant cell tumor is fnable pinkish to reld she needor and easily broken up with a curette. In its early stages it contains no bone format on Micro copic examination show spant cells united to phagocytic leucocytes. The giant cells found in malignant growths have polylobular nuclei while those in beingin growths show mitotic bode.

The treatment of giant-cell tumor consists in free opening and thorough curetting cauterization of the cavity with pure phenol or the actual cautery crush ing in of the shell if feasible treatment of the remaining cavity by the open method and roenigen ray or ral um irradiation. If a recurrence of the growth develops the curettement should be repeated. In cases of repeated recurrence resection is indicated.

Divide II Layrimat. VID.

Fly L. W: The Second Great Type of Ch onle Ar thritis J Am M 1: 1923 ix 11 176

In this article by summanies the results of his inestigations steps in the final nutrie of the confine known as outco-arthritis arthritis deformans degenerative arthritis spention arthritis sentle arthritis and chronic rheumatism. He believes the cause is some form of non british organism probably a protozoan from the gastro intestinal tracticular states of the cause is some forces to the system through focu of outcome, elits about the roots of the teeth and causes an aspeline necrous in the mergon of the

joints Rest heat and proper diet usually cause the symptoms to subside but the disease itself is best tracted by the removal of dead teeth and the ersidication of intestinal parasites. The search for parasites bould 1 be on litered by a skilled parasitoligist Wyckoff working in collaboration with Ely found protosor in the stools in fourteen of this year, cases

II mmond R Relaxation of the Shudde Follow ing Bone Injury J B & G J M Su g 1933 v

The author reports three cases of fracture of the upper end of the humerus in which the weight of the swollen arm caused exhaustion of the shoulder muscles. The deltoid was chiefly affected. Down ward subluxation of the head of the humerus resulted. This subluxation my be without symptoms.

In the diagnosis an 'x ray examination may be a hindrance instead of a help unless the findings are carefully, checked by clinical study as the apparent position of the head is dependent upon the figle of

When the subluxation is mild it takes care of itself. The shoulder recovers normal function in the way I length of time

As this condition tends to occur following injury
to the shoulder the use of heavy apparatus should
be avoided Robert V. Funniem M.D.

Cle land M Suppurativ Tenosyno itis of the Flexor Muscle of the H nd A & S g 9 3

This article review fifty seven consecutive cases of acute infections and gives the end results after an average time of one and one half years The infections are classified as primary or due to direct implantation of the organisms at the time of injury and secondary or due to extension to the tendon sheath from the surrounding its use. In cases of primary infection a good result may be obtained if thorough dranage is instituted early Secondary infection is frequently slow in developing and diagnosed late consequently the prognosis is less favorable.

Trauma is usually a factor but sometimes as in cases of gonorthean to injury is mentioned in the history. Puncture wounds are the most common and in two thirds of the cases reviewed a foreign body was present. It was interesting to note that all of the thirteen cases of primary infections showed a wound at the distal flevior crease. This was not true of the cases of econdary infection.

The cases of pinnary infection came to operation on an average three days and system hours after the injury while those of the secondary type were operated upon after about fifteren days Exery hour of delay lessens the chance of a good end result. In one case of pinnary infection the condition was well developed seven hours after injury. The most common organism is the humbitive strengtheoretis.

After the operation the author places the hand and forcarm in sternle towels. After the bleeding has stopp date hand is soaked in warm (iro degrees) sterile bone, act of solution for from twenty four to lotty eight hours when all rubber dam drams are removed. Sterile towels are then applied again and internutient soaking is begun. It is very important to sold secondary contamination as such cases do not sold secondary contamination as such cases do so the sold secondary contamination as such cases do not sold secondary contamination of sold secondary different sold

To decrease the chance of s condary infection the patient should be kept in the hospital until the nound is almost if not entirely healed

ROBERT V FUNSTEN M D

kanayel A B Tuberculous Tenosynovitis of the Hand A Report of Fourteen Cases of Tuber culous Tenosynovitis S g Gyn c & Ob t 9 3 FEX 635

It is important to recognize the condition before framentation has taken place in the tendons as the chance of recovering normal function is materially lessened by this process

The patients whos cases are reported ranged in age from 10 to 60 years. A h story of trauma or pulmonary involvement was not constant

The disease appears in vanous forms. There may be a simple storius caudate or granulation tissues and nee body formation. Later the fungoid and de structive types may be seen. The deep fascs i more tense than normal and the superficial its user see edematous. The tendon sheaths are no long white and glustening but yellowish gravish or purplish and thrikened. The involved tendons

with their sheaths present a fusiform enlargement During this stage careful dissection will show that the tendon has not yet become involved in the tuberculous process

Later the sheath is replaced by caseous and fi brous tissue and fragmentation occurs. All of the tendons in certain groups may become masses of fibrous tis ue. The palmar involvement follows strictly anatomical lines if it begins in the little

Enger the thumb is almost certain to be affected.
Although fragmentation occurred in six of the fourteen cases the tendons of more than one finger were destroyed in only one. When the process is in the palmar radial and ulnar bursa: the median nerve

is usually involved but rarely destroyed

The tenosymovitis as a rule develors slowly

The tenosynovitis as a ruje develoj's slowly causing stiffness of the hand and swelling. Occasion ally severe pain 1 caused by median nerve pressure With the development of symptoms there is loss of function. At certain stages of the disease creptation may be felt. In neglected cases bone and yout involvement and fistula formation may occur.

If the tenoy, novitis is not accompanied by tuberculous lesions clsewhere there is a possibility of complete cure. Conservative treatment consists of immobilization in the very early stages or removal of the melon seeds and the injection of iodoform

emulsion Such treatment is slow

The author advocates careful resection of all tuberculous tissue. He does this under local arms thesia induced by blocking the brachial plexus with per cent novocaine injected above the clavicle This is sometimes supplemented by infiltration of the ulnar nerve at the elbow and of the median nerve in the incision. In order that the field may be bloodless constriction is maintained with a blood pressure apparatus the point being kept twenty above the systolic Greatly diseased tendons are resected and the remaining portions attached to their unaffected neighbors. Care is taken to avoid damage to small blood vessels and nerves Better recovery of function follows this treatment if the member is not immobilized. The patient is instructed to use the hand for light work as soon as the wound ROBERT & FUNSTEN MD se healed

Colvin A R Some Disabilities of the Knee Joint S rg Cl n A 4m 923 Ht 1327

The author reports cases representing various types of internal derangement of the knee joint Symptoms of lose body in the joint dislocated semilunar cartilage and injury to the infrapatellar fat pad are so similar that their differentiation is sometimes very difficult.

In all except one of a number of cases of osteo chondctit diss cans the symptoms had been present for a number of years. In the one exceptional case the joint had become locked following a sudden many sustained three weeks before the author was con ulted.

In osteochondritis dissecans the symptoms are very similar to those of villous arthritis or early arthrit s defermans with intermittent swell ne an l I mitation of motion. The \ ta will usually fem o strate the loose t is and a refect in the ar ticular surface of the joint. The treatment come t of the removal of the lose bods throu ham sial

caracatellar inco on

In two cares of injury to the semilarur cartilare which are a cu se la first er of traum was einen In the first the cartilage was torn ir mits coron ra attact ment except at its two en is an i its fr e e lee p vente lexter ion of the junt. In the second case a small round me all body which could be felt on the mestal's 'e of the fint proved to be a section I the anteri r half of the internal semilunar which

bal been torn from its c rorary attachment and shape I into a r un I ms s the s ze of a pea

In an ther ea e reporte ! a innee of hypertro phie I fit almost I g in I ng hung it m the infra catellar fat t dan leau ed s mpt me very simil r

to the of lighty to the semilunar cartil ge Its test Keer M.D.

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Citi toph I a Research on Bone Craft Fixed in Alcoh I and the Mechani m of Osteogenesis (Rech rehes our les gretles d'm fire à l'al vel t sur le recani m e l'ostèrectoèse à le s d e e e e e e e 11/ 40

The author energy's case of a seld or who receive i gunshot a unds of both kners on September 20 1018 In the left kn e the I r jettile d'in t pene trate the junt but in al righ knee the 1 int lat be a entere ! and the patella was so e mm nut ! that its remaral was necessiry. After d fill ment of th kree opening the ends of the quality is and t Bar t nd ne were so ured together Il 'ng or ur 11) primary int ntion.

On October 30 the patie t was able to walk but hal pr cu ally no acts the ston of the I g and only ad ween Ing we flexion The right leg th ref re dragg d beht I the left and the f t was r tated

externall. On lanuary 13 of the rext year both o telle w re removed fr m notl r soil r who had died from a healinjire The right patella was r m lu thits quadric ps and priellar to dens the fatty [] and I cm of the interel capsule with its attached s novial surface. This w s place I in so per cent sleohel On January 16 the patients in he knee u s ofen d the ricatus between the t o ten i na at the knee are excised and the bronze wire sut e we r move! The same isl surface was a ntracte! but th re were no adhe i ns. The suberu al pouch was open and a normal fat pad wa found under the I stellar tendon. As the kne could then be flexed to go degrees the himitation of motion had been caus I by the shortening of the quadri eps and patellar tend n The patella fixed in alcoh I was implanted an I sutured to the pitellar ten lon an I its cut off qu driceps was burted in the spl t quad i

eeps of the recipient. The wound was then closed On examinate n thre lays lat e it was found clean and free from reaction. I rimary un on followed and after i it weeks the pa cent began walking. The article includes a roertgenogra 1 sh ; ing th tram tlanted natelia in position bubs quertly the nationt returned to civil Lie Leg fexion is now good and there are no ab ormal symptoms in the kn e a fact confirmed by a ree tge ogram made four years after the operation.

This result seemed to confirm the finders of Sagrotte and Sene it in research on the revisiting

of tran plants of dea I tend ns.

The author a first exper ment to determ ne the fate of tran of nied coad grafts was perf tried on a rabbt Am e of rib z cm I ng was resected an I in its place a similar rece from another ral bit wa attached by bronze wir. The graft had been beile ! f r twenty minutes and then preserved in or per cent alcohol for three weeks LI's re of the wound was followed to primary buling ther the t f ur d is the tean plant was removed by a serge loners t on decale fied, sectioned and stained.

The tran planted bone sho ed no all rptim it was annealed by callus to the neighboring living rib and magnification up to 1 100 Lameters showed that its cortex was id nti al with that of fresh his bone In one area here the graft d I not have good e ntact with the host bore or its periosteum some round c Il infiltration was not d. Th. the author belle es proves that the ester blast ele ll is a specific

cell

To prove that the bone c list ninh sects a were the enginal cills fixed by the heat and or served in al-ohol up to the time of tran plantati n Christ phe tran plated bone into the lumbar muscles of a rallig on one side 1 rng bene and on the other boiled bon fire I in al ohol B th t ne plants were free from all bony cont t and phiso-Defcal an I purposeful action After thirty dissibily were removed. The living bone tran plant was adherent to the surrounding testes but the le d transplant was a ther nt at one nd only Roentgen ograms h d shown that the h ing bene tran plant was un lergoing alsorptio and it's was confirm d I m croscop c section. The dead bone was but

sh htly attacked by the absorptive process all th cell o ces were county no cell protoplasm remaining I rum these experiments the concluion a drawn that growth of calcifed tis ue of a deal g aft i possible that the red if g proce a in the ti sue is

lependent upon osteoblasts den dir in the ling bo e and that the connective t saue cell of th sur round ng t saues pl , only a small rôle in the proces Assentte and Seprert r habilitated art ries and

tend a fixed to aloch ! The auth a obtained further proof of this a tion in specim n of osseo s t s ue removed after three m nths and tive lass and four months and ten days after the graft had been fixed in 94 per cent alcohol. In some instances however the findings were n gati e A graft 132 cm long obtained from another rabbit was inserted into a host as in the previous experiments. There was no local or general reaction and the roentgeno grams showed that the graft remained in place Four months and twenty days later the intact graft was removed. It showed no evidence of absorption and was adherent at one end only. At this extremity there was no microscopic evidence of sociobastic

activity.

Grafts of dog and rabbit bone were introduced also into the chest and back of dogs. After four months and four days when these grafts were removed it was found that the piece of nb fixed in alcohol and implanted subpenosteally had been completely absorbed. Living nb transplanted showed abundant callus but not firm union A piece of nb completely denuded of its perosetem and fixed in alcohol had fractured at the site of the

wire holes as the result of rarefying osteitis

The conclusions drawn from these experiments
are as follows

r Dead rabbit bone becomes almost completely absorbed.

 Autogenous grafts vith periosteum become almost completely absorbed
 Autogenous grafts without periosteum com

pletely disappear

4 Dead dog bone disappears

5 Living rabbit bone enlarges considerably and

becomes adherent to neighboring tissues. The study therefore indicated that only a living heterogenous graft resulted in bone formation as the animal absorbed even its own hiving grafts. Accordingly the author concludes that the life death honogenesis and heterogenesis of the graft are of only accordary importance. The operative technique the character of the issues into which the control of t

The author's study of the mechanism of absorp tion of certain grafts after histologic study of numerous specimens led him to conclude that in the majority of cases the terminal portions of fragments which enter into the field of a fracture die 1 e the osteoblasts die and the compact bony substance becomes absorbed Calcareous salts are taken up by the blood plasma At the same time the process of callus formation begins with cell regeneration between the fracture ends By the fifth day this new tissue shows osseous substance wh ch gradually takes on the form of amorphous spots staining feebly with eosin. These are likened to small depots where osseous substance is precipitated. This substance includes fibroblasts which later become osteoblasts The cells seem to be attracted to the early precipitation of osseous tissue possibly by chemotaxis They gather around the blocks of bone and form a sort of crown As the proces continues they become imprisoned in the compact substance On the periosteal side a similar process occurs

A second case reported was that of a 24 year-old man whose left ulna was injured by a piece of shell

in September 1918. The wound healed after d' bridement Eleven months later 11 cm of ulna which had been fixed in 95 per cent alcohol for forty days was transplanted into the bony defect. Eight months later the graft had healed firmly into place

A third case was that of a 14 year old boy with pseudarthosis of the left radius following a shell injury. A year after the injury a portion of the tadius was excessed and the defect filled with bone which had been taken from a dead soldier eighteen months previously and fixed in 50 per cent alcohol This transplanted radius was of greater diameter than the boy's radius. After two months callus was found thrown out around the embedded end of the transplant and a good mechanical result was obstained.

The following clinical conclusions are made

r The use of bone grafts fixed in alcohol renders unnecessary the trauma of taking living bone trans plants

2 Physiological function returns promptly if the transplant is firmly fixed Early return to work is favored and muscle atrophy is prevented

The dovetailing of fragments is advocated for fixation in order that the use of metallic sutures may be avoided A careful aseptic and hæmostatic tech inque is essential to success

The author discusses the change in the dead transplain from the chemical point of view stating that all parts except the connective issue and the elastic fibers undergo d's ntegration and absorption. The transplant contains: (1) calcium salts (2) protests (3) nucleoproteids (4) fats and fatty acids (c) lexitin (6) lactic acid and (7) alcohol.

Wells is quoted as stating that all calcium neces sar, for new bone formation comes from the blood or is held in suspension by the proteins probably as calcium on protein. This calcium suspension is unstable and may be precipitated by such factors as changes in the alkalinity or carbon dioxide content of the blood.

Four hypotheses are advanced to explain the chemical mechanism of osteogenesis

I The proteins are so completely used that cal cium can no longer be held in solution

2 An increase in the alkalimity of the blood occurs with a change in the carbon dioxide and the precipita tion of inorganic salts

3 The phosphoric acid and blood calcium be come combined 4 The calcium salts are absorbed by some pre

viously precipitated product

The article is supplemented with a bibliography

KELLOGG SPEED VID

Wheeler Sir W I d C Contribution to the

Discu sion on Arthroplasty Med Press 1923

Whether arthroplasty arthrodesis or excision should be used depends upon the requirements of the particular case. Wheeler questions the advantage of arthroplasty of the shoulder over carefully performed

excision or fixation in the position of election. An arthroplasty of the elbow carefully done makes a stronger joint than excision but funtion in good position is often satisfactory In the Luce wint arthroplasty is seldom in licated In the hip joint in the fee cases in which mobiliza

tion is indicated the Murphy method of arthro FORN W POWER MD Gessner II B Arthroplasty 1 014 1 11 & S J 1013 | XVI 24

plasty is superior to excision

The author reports on nine arthroplasties Two

performed on the raws and three on the elbor gave excellent results and one performed on the elbow gave a good result. The three others were followed by suff cient improvement to justify the procedure There were no deaths Ion's W Powers M D

Mueller W The Typical Roentgen Ray Picture of Osteochond itis Deformans Coræ Juvenili Taken with th Hip Flexed and Abducted (U be e en typs h Roentg ab fu dd Ost o ch ndrius d f m ns co a ju en lis bei A f ah men m geb ugte abduz t n Hueftg le k) Foris h a d G b d R 12 nsi ahl 1923 xx 335

For the diagnosis of hip disease Mueller recom men is anteroposterior raying of the patient in the summe has tion with the hip joint flered at a right angle and abducted to the maximum. This sho s the femoral bead and neck in a horizontal plane through the femoral neck

In five cases of recent outcochondritis def rmans coxe juvenilis erosion of the upper half of the f m oral head and neck was found while the other parts we e relati ely normal. When the femur is extended this location corresponds to the ant nor quadrant and this position explains the I ght por tions seen in the ordinary plates which are du to deficiency in the arterio parts of the bones

MEYER (Z)

Weeler Sir W I de C Amputati na with Special R ference to the Sleeve Amputa tion of the Thigh in Se re Injury nd Disease 023 E 300

The author points out that the expenerce of the war made it obv ous that many of the old ideas on amputation are fundamentally incorrect. Amputa tions about the foot are generally discrided and Symes amputation has been improved by di iding th tibia and fibula at a higher level

Most surgeons and hmb makers ag ee th t am putation through the knee joint is and sirabl

Amputation at the hp; dore b t wh n skin flaps are formed and the musel s ar cut ers short the head of the femur b rrg left to fill up the acetabu lum The soft pa to should be cut so that they can not push the artificial limb off the tuber ischu

Amput tons in the lower lmb hi h are still being performed include (t) amputation of the toes (2) Symes amputation (3) amputation through the leg with the formation of skin flans (4) amputation of the thigh with the formation of long anterior and short posterior flaps and (c) amputation through the neck of the femur with the formation of skin flans

Amputations in the upper limb which are still in use are (1) amputation of the fingers (2) amputa tion of the forearm with the formation of equal skin flaps (1) circular amputation of the upper arm and (4) Spencer s amputation of the shoulder

Three cases are reported to illustrate the sleeve amputation a method designed to meet certain emergency conditions with the least surmeal risk and to conserv the longest possible stump the amputation bein performed bel withe fracture and the d tal fragment of the fractur d bone being removed. It is usually better to leave the sleeve completely open for drainage and contraction as this will save consid rable time. The operation i equally appl cable to the upper and lower limbs

In conclus on the author des ribes the amputation of the leg re ommended by Orr Th s to of election in this operation is the middle thid Lo g anterior and short po terior skin flaps ar I med The per osteum at the cut en lis remov dand the marrow coop dout The nerves are drawn out of the stump as far as possible injected with alcohol and then divided just below the point of injection

If hen it is necessa y to remove the leg at a higher level it is of advantage to remove the fibula entire D ASW CIL MD

Perthes G Curviline r Osteotomy of th Tibia in G nu Vafgum and Genu Varum (Ueb r
bog formg Osteot mi d Tba be G u
lg m d G n a um) Z ni lbi f Chi q 3 1 83

The author recomme ds a new m thod of opera on hich he claim has advantages over Mac Ewen's supracond lar osteotomy The bones of the leg are gi en a new shap which mo e clos ly app or mates the normal than that I llowe g Mac Enen's operation con equently free mobility of the knee rount and normal funct on return much soon

The technique is as follows t curvil near osteotomy a do e at the upper end of the tibia the in ision with its concavity abo e being mad transversely at the level of the tibial tuberosity. The pat llar ligament is cut through at its insertion so that one part above and one below still remains attached to the bone. A c neav pattern is then appl ed so that its long axis co neides with the axi of the femu The axes of the tibia a d patte n then form an angle which equals the correct n and the c nter of the arc hes in th mildle f the k ce jo nt AM cEwen chi el (1 mm or less broad) i then applied vertically to the axis of the tibia with its edge in the direction of the arc nd the line in which the bone is to be cut ! first lightly m rk d foll using the curve of the pattern If the chisel becomes fix dat a freed by driving in a econd ch sel b it s d

When the chisel is close to the posterior wall of the tibia (in 18 year old patients about 4 cm deep) the tibia is broken apart and the gap is opened widely To do this the sole of the foot i placed on the operating table with the leg bent at the knee and an assistant presses his fist in the hollow of the knee The fibula is left attached to the lower part of the tibia but is forced apart from the upper condyle Concavity and convexity are then mod elled and adapted so that there is perfect correction and no springing back. Somewhat more bone is removed on the inner half of the lower part of the tibia than on the outer half. The fitting is done with the help of the pattern The patellar ligament fascia and periosteum are united with silk suture The skin is then sutured and a plaster cast 1 ap plied which includes the foot and extend to the tuber ischii

The Schanz mummy cast for both legs has been found of advantage. The cast is left on for from ten to fourteen days. After from four to four and one half weeks there is usually free movement. After five weeks the pattent may get up and at the end of seven weeks he is able to walk without a cane

In a period of one and one half years Perthes has operated successfully upon seventeen cases—thir teen of genu valgum and four of genu varum

GLASS (Z)

FRACTURES AND DISLOCATIONS

Conwell II E Compound Fractures of Long Bones J Am V Ass 1923 lx vi 1604

In reporting on seventy five cases of compound fracture of the long bones Con ell states that even fair function is better than the use of an artificial appliance

The average length of time spent in the hospital by his patients was forty seven days in twelve cases of fracture of the femur forty nine days in forty four c ses of fracture of the tibia and fibula it enty mine days in eight cases of fracture of the humerus and thirty, five days in eleven cases of fracture of the radius and that.

In 80 per cent of the cases the fracture was in the lower third of the bone and in a large percentage there was involvement of neighboring points. In almost 70 per cent considerable destruct on of soft parts had occurred and in 00 per cent the frecture was communited. In more than \$s per cent there was communited in more than \$s per cent there was considerable doubt as to the advisability of amputation.

The average number of days lost from v ork was tog in cases of fracture of the femur 201 in cases of fracture of the tib a and fibula 121 in cases of fracture of the radius and ulna and 97 in cases of fracture of the humerus

Thorough d bridement is done by the author routinely with care not to remove bone with periosteum attached. Small pieces of bone which seem useless will often un te later and help in the formation of callus. It is better to risk the necessity for a

later sequestrectomy than to sacrifice bone need lessly Delav in bone union and healing is more often caused by traumatized soft parts left at operation than by the presence of poorly attached bone fragments

After the wound has been cleansed and the trauma tized soit parts have been excised the bone fragments are carefully approximated by suture of the periosteum with chromic catgut or with kangaroo tendon

When the operation has been completed a molded plaster splint is applied in cases of fracture of the leg or forearm and a Thomas splint in cases of fracture of the femur or humerus the use of the Balkan frame

being combined with proper traction

To determine the progress of union roentgeno
grams are made at frequent interval with the port
able roentgen ray machine. When sufficient callus
has formed the plaster splint is removed and active
and passive motion massage and hot baths are in

stituted

In more than 90 per cent of these cases the Was
sermann test was positive on the date of the injury
but negative ten days later

Frequent inspection perseverance and patience in the treatment are essential for good results. The proper handling of a compound fracture is a much more difficult procedure than many so called major operations. W CRILE M.D.

Hertel Calcaneum Nail Extension with the Foot in Sup nation (C 1 tus Nagel ate s on unter Sup n to sat liu gd Fu e) B i z klin Ch 19 3

The perforating Steinmann nail is not driven through the calcaneum perpendicularly to the aus of the lower leg. In eversion fractures the outer nail is driven through higher and closer to the external malicolus and the inner one lower and closer to the plantar surface. When the foot is at rest the nail is oblique to the axis of the leg. When traction is applied it is perpendicular to it and turns the foot to the destred position. In twelve cases of fracture treated in this manner the functional results were cellent.

Ashhurst A P C and Crossan E T The Prog no s and Treatment of Fractures of the Leg and Ankle The End Results in 100 Patients 1rch S g 1923 6 1

A good anatomical result was obtained in eighty one of the too cases reviewed. Insut; seven of these the functional result was good in thirteen fairly good and in one poor Of seventeen cases in which the anatomical result was moderately good the tender of the cases in which the anatomical good in which Of two cases in which the anatomical result was poor the functional result was moderately good in one and poor in the other.

Simple fractures were treated with the pillow splint in the fracture box the skin being first care fully cleansed to prevent the infection of any bullæ that might develop Gross displacements were corrected and V ray examinations were made to guide correction. Good anatomical correction was obtained in 77 per cent of the cases of simple leg fractures in op per cent of these the functional result was good. Of the cases of fracture of the ankle a good anatomical result was obtained in 86 per cent and a good functional result in 72 per cent of these

The leg was kept in the fracture box sufficiently long for the subsidence of the ædema On its re moval Stimson molded gy psum splints were applied. These are three splints made of plast r of Paris The first extends from above the knee under the calf and heel along the sole of the foot to the to s The second is applied with one end on the dorsum of the foot around the outer border across the sole and up the inner side to the m d thigh. The third covers the dorsum of the foot the sole and the outer side of the leg and knee and is fixed in place with a band age. The patient walks with crutches and when union is apparent he is encouraged to bear a little weight on the limb one splint after another being d carded as he recovers. The splints may b removed for physiotherapy

noved for physiotherapy
In cases with marked d splicement correction is
effected under aneath sia. In cases with overriding
Steinmann pin traction through the calcaneum or

Buck a extension were employed to advantage. In ten cases of leg firsture Delbets gyp um apparatus was employed. This consists of two alteral plasters plunts extending from a point just below the l vel of the knee joint for cm of the sole of the foot at the heel which are applied with the leg in fraction and secured by circular bands below the lines and allow the bank. The adva tage of

these spluts is that they make it possible for the patient to get up out of bed aller the first week or ten days the foot being placed on the floor, and compel har to excress the kines and ankle. Func tion hastens bone repair and therefore abortens the period of disability in the cases revewered the period of disability in the cases revewered the period of disability of the complex of the company of

The cases reviewed included filters of compound incitures lourters of the shall and one of the shall point. Those with small skin wounds were tree day simple fractures after cleaning of the wound Operative treatment if any was of layed for a week or ten days after the night in two cases with extens we wounds of the soft pa is definedment as all the contract of the state of the soft in which the askle joint as an anothed. Site minant insection was employed to be in the state of the

Sixteen patients received operative treatment a d fourteen of these have been traced. Of mine c ses in which plating was done removal of the plates was necessary in only one. Of sx cases i which screek fixation was employed the screek was removed in one. Anatomical correct in as obtained in 78 per cent and moderate red ct on in three.

RUDOLPH S RECH MD

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Foix C and Masson A The Syndrome of the Posterior Cerebral Artery (Le syndrom méd Par l'artère cé éb al po térieure) P 361 1923

Obliteration of the posterior cerebral artery is of clinical importance e pecially becau e of the com plexity of the anatomical areas this yes el supplies namely the peduncular regions and the inferior surface of the occupitotemporal lobe. For the same

reason the symptoms are variable

Lesions of this artery may occur at any point between the origin and distribution of the vessel and even minute lesions may cause grave symptoms. The artery has a superficial and a deep distribution The superficial includes the inferior surface of the brain all of the temporo occipital lobe except its anterior extremity a branch of the Sylvian fissure a branch to the external surface of the third and some times a branch to the second temporal convolution and the lower half of the occupital lobe the internal surface of the temporo occipital convolution part of the convolution of the hippocampus and all of the cuneus The deep distribution comprises the greater half of the postero inferior surface of the optic thalamus

Complete lesions of this artery are rare and it is seldom obliterated at its origin. It anastomoses by the posterior communicating branch with the circle of Willis Its peripheral anastomoses with neighbor ing arteries are so numerous that it may be regarded as a terminal artery only in part. Consequently even extensive lesions of the vessel are subtotal in their effects the peduncular area is usually excluded and there are many partial syndromes from lesions

of this artery

The syndrome of the artery is clinico anatomically divided into two types the posterior temporo occipital and the anterior or thalamo subthalamic The posterior is character zed by hemianopsia with or without alexia the anterior by variable thalamic or cerebellothalamic symptoms up to complete hemi paresis On the left side the predominant symptoms are the alexia and the minor troubles associated with it while on the right side according to the predomin ance of one or the other groups of symptoms it is considered as a thalamic lesion or hemianopsia

Two cases are reported One came to autopsy The partial syndromes are described briefly

KELLOGG SPEED M D

Lucke B and Rea M H Aneurisms J Am M A s 1923 1 1 67 The di tribution of 263 aneurisms of the aorta

studied post mortem at the Philadelphia General Hos

nital and the Hospital of the University of Pennsyl vania was as follows

Sixty two involved the ascending arch twenty three the juncture of the ascending and transverse arch forty six the transverse arch forty two the descending arch and nineteen the entire arch thirty one the thoracic aorta and forty the abdo minal aorta

The following generalizations have reference only to the behavior of the majority of the aneurisms and indicate the conditions most frequently en

1 Aneurisms of the ascending arch are of rel atively small size they arise most frequently in the lower portion of the vessel extending to the right and anteriorly They become adherent to or com press or crode the neighboring great vessels the respiratory structures the ribs the right clavicle and the sternum Rupture occurs most commonly into the pericardium or the respiratory organs

A considerable number of aneurisms are located at the suncture of the ascending and trans verse arch. They attain considerable size extend commonly to the right affect especially the neigh botting vessels nerves and respiratory organs and rupture into the respiratory organs

3 In the transverse arch aneurisms often attain large size they arise near the orifices of the great vessels and extend with equal frequency anteriorly or posteriorly They commonly affect the sternum and the ribs compress the trachea and esophagus and rupture into these structures or into the pleural cavities External rupture is uncommon

4 The aneurisms of the descending arch are located most commonly near the juncture with the transverse arch Their extension is mainly posterior and to the left They frequently involve the esoph agus and the left respiratory organs many cause erosion of the vertebræ and ribs Rupture takes place especially into the left respiratory organs and the cesophagus

Aneurisms involving the entire arch are usually large saccular or fusiform dilatations which extend both anteriorly and posteriorly The sternum vertebræ and ribs are the structures eroded

6 In the thoracic aorta the aneutisms are com monly large and extend posteriorly and to the left eroding the vertebræ and ribs and rupturing into the left pleura and the lung Rupture into the abdominal cavity also occurs

7 In the abdominal aorta aneurisms may attain very large size They are located chiefly just below the diaphragm at or near the coeliac axis or above the bifurcation They extend with equal frequency posteriorly or anteriorly and commonly erode the vertebræ Rupture takes place with equal fre

that might develop. Gross displacements were corrected and X-ray examinations were made to guide correction. Good anatomical correction was obtained in 77 per cent of the cases of simple leg fractures may per cent of these the functional result was good. Of the cases of fracture of the ankle a good anatom all result was bottained in 86 per cent

and a good functional result in 74 per cent of these The leg was kept in the fracture box sufficiently long for the subsidence of the cedema. On its removal Stimson molded gy psum splints were applied. These are three splints made of plaster of I aris The first extends from above the knee under the calf and heel along the sole of the foot to the toes The second is applied with one end on the dorsum of the foot around the outer border across the sole and up the inner side to the mid thigh. The third covers the dorsum of the foot the sole and the out r side of the leg and knee and is fixed in place with a band age. The nationt walks with crutches and when union is apparent he is encouraged to b ar a little weight on the 1 mb one splint after another being d carded as he recovers. The splints may be removed for physiotherapy

In c ses with marked displacement c rrection is effected under anasthes a In cases with overriding Steinmann pin traction through the calcaneum or

Steinmann pin traction through the calcaneum Buck a extension were employed to advantage

In ten cases of leg fracture Delbet's gypsum apparatus was employed This consists of two lateral plaster splints extending from a po at just below the level of the knee joint to r cm of the sole of the foot at the heel which are applied with the leg in traction and secured by circular bands below the knee an lal ove the ankle. The advintage of

these spinits is that they make it possible for the patient to get up out of bed after the first week or ten days the foot being placed on the floor and compel him to exercise the kine and ankle. Function hastens bone repair and therefore shortens the period of disability. In the cases revewed the period of disability and the cases revewed the period of disability and the cases revewed the period of disability. In the cases revewed the period of disability and the statement of the district six weeks less than that the period of the district six weeks less than that show a by the statistics of the American Surrical

Association

The cross reviewed included filten of compound frictures fourten of the shift and one of the shift inctures fourten of the shift and one of the shift out. Those with small skin wounds were treated as simple fractures after cleasing of the wound Operative treatment if any was delayed for a week or ten days after the injury In two cases with ettensive woun is of the soft parts al bridenent was done. In the first of these in which the ankle joint was involved. Steinmann traction was employed following the insuccessful application of a plate. The anatomical result was good and the functional result moderately good. In the second case a case of insure of the bips and the fibra is moroable clamp of the control of the contr

Stateen patients received operative treatment and fourteen of these base been traced. Of nine cases in which plating was done removal of the plates was necessary in only one Of six cases in which screw fixation was employed the screw was e moved in one. Anatomical correction was obtained in 78 p r cent and mo lerate reduct on in three.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Foix C and Masson A The Syndrome of the Posterior Cerebral Artery (Le yndrome d lart re cérébr le posté eure) Presse méd Par 1933 xx 36

Obliteration of the posterior cerebral artery is of chiucal importance e pecially because of the complexity of the anatomical areas this vessel supplies namely the peduncular regions and the inferior surface of the occupiotemporal lobe For the same

reason the symptoms are variable

Lesions of this artery may occur at any point between the origin and distribution of the vessel and even impute lesions may cause grave symptoms. The artery has a superficial and a deep distribution. The superficial includes the inferior surface of the brain all of the temporo occupital lobe except its anterior extremity a branch of the Sylvian fissure a branch to the sternal surface of the third and some the surface of the temporal convolution to the second temporal convolution and the surface of the temporal convolution surface of the temporal convolution as surface of the temporal computation part of the convolution of the hippocampus and all of the cuneus. The deep distribution comprises the greater half of the postero inferior surface of the optic thaliums.

Complete Essons of this artery are rare and it is eldom obliterated at its origin. It anastomoses by the posterior communicating branch with the circle of Willis. Its peripheral anastomoses with neighbor may arterise are so numerous that it may be regarded as a terminal artery only in part. Consequently exercised as the consequently exercised as the consequently exercised as the pedipicular area is usually excluded the produced and there are many printly appromes from lessons and, there are many printly appromes from lessons

of this artery

The syndrome of the artery is clause anatomically divided into two types the posterior temporo occipital and the anterior or thalamo subthaliame. The posterior is characterized by hemianopias with or without al xia the anterior by variable thalame or extredeblashime symptoms up to complete hemis or extredeblashime symptoms up to complete hemis are the alternative the predominants ymptoms are the alternative the predominants ymptoms are the alternative the predominant of the predominance of one or the other groups of symptoms it. I whale on the right side a coordinate to the predominance of one or the other groups of symptoms it.

Two cases are reported One came to autopsy
The partial syndromes are described briefly
Kellogo Spred M D

Lucke B and Rea M H Aneu isms J 1m M

The d stribution of 263 ancurisms of the aorta stu be I post mortem at the I hiladelphi General Hos pital and the Hospital of the University of Pennsyl

Sixty two involved the ascending arch twenty three the juncture of the ascending and transverse arch forty six the transverse arch forty two the descending arch and nineteen the entire arch thirty one the thoracic aorta and forty the abdominal aorta.

The following generalizations have reference only to the behavior of the majority of the ancurisms and indicate the conditions most frequently en countered

1 Aneurisms of the ascending arch are of rel atively small size they arise most frequently in the lower portion of the vessel extending to the right of press or erode the neighboring great vessels the respiratory structures the ribs the right clavicle and the sternum Rupture occurs most commonly into the pericardum or the respiratory organ.

2 A considerable number of aneurisms are located at the juncture of the ascending and trans verse arch They attain considerable size extend commonly to the right affect especially the neigh boring vessels nerves and respiratory organs and

rupture into the respiratory organs

3 In the transverse arch aneur ms often attain large size they arise near the orifices of the great vessels and extend with equal frequency anteriorly or posteriorly They commonly affect the sternum and the ribs compress the trachea and csophagus and ripture into these structures or into the pleural cavities External rupture is uncommon

4 The ancursms of the descending arch are located most commonly near the juncture with the transverse arch. Their extension is mainly posterior and to the left. They frequently involve the crospin agus and the left respiratory organs, many cause erosion of the vertebre and ribs. Rupture takes place especially into the left respiratory organs and the crosphagus.

5 Aneurisms involving the entire arch are usually large saccular of fusiform dilatations which extend both anteriorly and posteriorly. The sternum vertebre and ribs are the structures eroded.

6 In the thorace aorta the aneurisms are commonly large and extend posterorly and to the left eroding the vertebra and ribs and rupturing into the left pleura and the lung Rupture into the abdominal cavity also occurs

7 In the abdominal sorta ancursms may attain

very large size. They are located chiefly just below the disphragm at or near the cenica axis or above the bifurcation. They extend with equal frequency posteriorly or anteriorly and commonly erode the rettebra. Rupture takes place with equal fre quency into the abdominal cavity the pleural cavities and the retropentonesi tissues

5 In the series of cases re newed the location of the anguism corresponded to the so-called points of election along the spiral line of impact described by Rindil isch in only about 50 per cent and many of the ancurisms d d not c nform in their d rection to Rin life; ch's rules

One of the most striking effects f ra! um is the production of obliterative endarteritis. This was made use of in the very early treatment of nevi Since these lesions are treated solely for cosmetic reasons incomplete removal seems preferable to the substitution of an ugly scar. When the very best results are obtained the lesion is scarcely noticeal le but there is always some atrophy and even when the utmost skill is used telangiectases may occur Usually the latter may be removed with the water cooled mercury lamp Beta rays are more eff cient in removing such marks than the gamma rave. If the involvement is deep the hard beta rays are used

and also the gamma rays

young children respond better than adults True vascular nævi include the port wine mark the strawberry mark and angioma cavernosum. The port wine stain varies in depth of color is usually homogeneous an i is not raised above the surroun f ing area. A few radium th rapists report excellent results in the treatment of these lesions but the majority advise against treating them Radium planues or t ties are the only forms suitable to screening or only slight screening shoul I be used The ideal dose is just short of an erythema dose The authors regard ultraviolet light as better than radium I rays and gamma rays have no effect

The strawberry mark or vascular nævus is raise ! above the skin and in rare cases may undergo spontaneous involution. The lose lepen is on the lesion I navus that is only slightly raise i evenly colored and smooth should be go en an exposure of from twenty to forty minutes with a quarter to half strength plaque screened with or mm of aluminum Thicker navi should be gi en an ex posure of from one to one and one half hours with a similar plaque screened ith 0 3 mm of brass or

its roussal nt

If the first two or three treatments cause no improvement subsequent treatments should be spread over a consid rable period of time Caver nous hema giomata are usually circumscribed tumors Frequently they are subcutaneous and usually they present a faint blue or violet color These lesions are treated from one to two hours every four to six weeks with plaques of quarter to half strength screened with 03 mm of br ss Tubular applicators are used satisfactor ly with proper sere ning and d tance Nee lling these sions seems a radical procedure

The author's conclusions are as follows Padium gives better results in vascular nevi than any other therapeutic agent

The results are best in nævus vasculosus (strawberry mark) next best in cavernous nave and least satisfactory in nævus flammeus (port wine

3. Beta r vs should be employed as much as possible

4 Severe reactions are unjustifiable I JAMES LARRIN M D

BLOOD AND TRANSFUSION

Lattes L True Agglutination and Pseudo-Agglu tination in Blood Tran fusion (E hte Ila m g glt t n u d Pseu so-Aggl tinat in bez g ui d Mutisan sus) Kl ll k ks 1923 ll 12 9 in bez g uf

According to I den Vorschuetz and Diemer the four blood groups are not constant but may be changed by drugs such as qu nine calcium antifixin and an esthetics by physical agents such as the roentgen ray and the galvanic current and by thysiologic I processes such as menstruction Ex perimental data are not sufficient to warrant the assumption of a change of the blood groups a transition from one to the other or the existence of a fifth group in which the serum agglutinates all

corpuscies including its own I seudo agglutination or nummulation has not teen suff ciently distinguished from true anglutina tion True agglutination is dependent upon hered ty and cannot be influenced by illness or external in Nummulation sometimes erroneously fluences called agglutination is influenced by external factors and sickness and is not a specific phenome non. It is closely related to the sed mentation rate of the erythrocytes and subject to the same in fluences If true agglutination is to be studed this must be done under conditions which ex clude nummulation Nummul tion does not oc cur in a weak phys ological salt solution

Ruf II O nd McCl Hand J E Intraperitoneal Tran fusion in Infants Ohio St it M J to t

The first part of the article is devote I to a review of the l territure o transfus n as a the apeut c me su e

The authors th n report a series of experiments performed to d termine I The rapidity and completeness of the intra

per toneal absorpts n of autologous blood in guinea 2 The route and rap dity of absorption of autolo

gous blood from the peritoneal cavity of dogs 3 The route of absorption of heterologous blood

I om the perito cal cav tv of dogs.

4 The rate of abs rption of whole extrated and

defibrinated blood f om the p ritoneal cavity of guinea pigs

The conclusions drawn from the findings are as follows

t Whole or defibrinated blood is rapidly ab sorbed from the peritoneal cavity

2 Much of this absorption takes place through the lymphatics which drain into the thoracic duct Microscopic and macroscopic examinations reveal the presence of injected blood in the thoracic duct lymph in from eight to ten minutes

3 The rate of absorption of whole citrated and defibrinated blood shows no marked differences 4 The injection of whole blood which is the most

4 The injection of whole blood which is the most simple causes no more reaction than the injection of modified blood and is therefore to be preferred A number of case reports are included in the article

CLAYION F ANDREWS M D

Rothe E The Value of B1 od Cell Sedimentation in Surgery (U b r de W t der Blutkoerperschen senkung n der Chirurg e) Z 1 lbl f Ck 923 1 1318

Cachena natures of the liver severe exanosis and polyglobulum usually retard blood cell submentation but in rare instances hastenit. A physiological acceleration of sedimentation occurs that the latter half of pregnancy and during menstrum ton Acceleration is found also in oligocyclation according to the control of the

Sedmentation is particularly valuable in the diagnosis and prognosis of pulmonary tuberculosis as it indicates the degree of its activity. Surgially it is of particular value in pathological bone conditions because by its help tuberculosis may be differentiated from osteochondritis. Perthes disease and the formation of loose bodies in joints of the pathological position of the programment o

Above all the method allows the time of convalescence to be determined objectively, (of value in neurasthema) since the curve reacts much more delicately than does that of the temperature or the leucoytes and very often returns to normal only after weeks I guesa a true pricure of the severity after weeks I guesa a true pricure of the severity of the infection and in syphihs is positive earl er and the proposition of the proposition of the severity and the proposition of the proposition of the proposition of the man texton.

Because of the sumplicity of the technique and the decisiveness of the method it would be very desirable to make the test relatively specific like the Massemann reaction. The electrical-charge theory of Hoeber is entirely superfluous for the explanation of the phenomenon. The rapidity of sedimentation is probably chiefly a measure of the reciprocal action between the surface tension of the blood corpuscies and the plasma.

Totaker (Z)

LYMPH VESSELS AND GLANDS

Whitaker L R Malignant Lymphoma (Hodg kin s Disease) A Radiographic Study i ch Int Med 1923 XXVII 538

The study of Hodgkin's disease reported was based on forty cases examined roentgenographically at the Massachusetts General Hospital and seven cases in which an autonsy was performed

The chest is the best field for roentgenographic examination in this disease because it is often involved and the low density of the lungs allows masses of lymphomatous tissue to show very distinctly. The roentgenographic picture is characteristic differing from that of other forms of malignancy and tuber culosis

Whitaker reviews the literature and describes fully the \textbf{\chi} ray findings in Hodgkin s disease on the basis of the pathology discussing the various types of intrathoracic involvement and the differential diagnosis. The article is well illustrated

The roentgen ray therapeutic test a method of differentiating Hodgkins disease from other conditions especially, carcinoma and tuberculosis is one of the most useful methods in the diagnosis. Blan kenhorn regards it as almost diagnositic Arapid and marked reduction in the size of the lymphoma is demonstrable in the roentgenogram after one or two treatments especially if the condition is in the early stages before there is marked fibrosis in the affected nodes

Whitaker's conclusions are as follows

The roentgen ray is of aid in the diagnosis of Hodgkin's disease because the intrathoracic nodes are often involved and the roentgenographic picture is fairly characteristic

2 It is of special value in the rare cases in which the lymphomata are confined to the thorax and biopsy is impossible

3 Hodgkin s disease is indicated when the roent genogram shows homogeneous roughly lobulated shadows in the mediastinal or hilus regions which shrink rapidly under roentgen ray treatment. 4 The most important condition to differentiate.

from Hodgkin s di ease is tuberculosis This differ entiation is usually not difficult

EMIL C ROBITSHER MD

Aikins W II B The Use of Radium in the Treat ment of the Leukæmias and Hodgkin s Dis ease im J Ro ig of 19 3 x 853

It has been shown that in ammals as well as man the lymphocy tess are the first to show the effect of N and radium rays but it is noted that in leukemia they are destroyed a great deal more readily than in inflammatory conditions (Levin) More can be done with radium in splenn eleukemia than in any done with radium in splenn eleukemia than in any attended to the splenn of the sp

The author cites a case in which 2 750 mgm hr reduced the blood count by 100 000 in two days and reduced the spleen 2 in, in four days the patient was able to return to work at the end of one week and has been in good health for four months \ \ \text{nother} patient who was treated five times in two years gained strength after each treatment except the last Death occurred two years after the radium tr at ment was begun In another case which is still under treatment the condition has been held in check for three years The v hite count was re luced from 113 000 to 216 000 in five days and when the patient was last seen was 62 000 Kad um has an extraordinarily rapid and po erful effect on this type of leukamia but unfortunately the improve ment is not permanent

of the chrone ctypes of leukemis the mix-loge of the chrone ctypes of leukemis the mix-loge neous responds best to rad ation. In the author access large the application will only the an art left in these until an exploration will only the an art left in the cuttil an exploration of the analysis of the art left in the cuttil an exploration produced. It mix you to a coon graph in are given at a time and then it vals are varied acror ling to the requirements of the particular case. A few patients had naw exposed in graph and dustrhous but these symptoms ceased in a few days. Many cases of lymphatic leukemia are

benefited by radium but the enlarged glands are so scattered over the body that it is difficult to apply a sufficient dosage of garman rays. As a rule, the white count is markedly reduced, and frequently the glands return to their normal size. The spleen of Bants a disca, e is often reduced in accomplication.

permit splenectomy Hodgkin's diseas may be successfully treated with rafum the size of the glands is reduced ar i the general cond tion is improved but there is little blood chang However the diagnosis of Hodgkin's d sease is diff cult and in cases so diagnosed autops sometimes reveals in tead a mall-cell sarcoma or lymphogranuloma. In a case diagnosed as Hodg kin's disease in 191, ra hum treatment cau ed such a ma ked reduction of the enlarged cervical and axil lary glands that in 1923 the patient was able to take out life in urance. Slight onl reement of the left cervical glands remains I ut the ingu nal and axillars are not nalpal le. In another case the cond tion was held in check with radium the glands involved the cervical glands respor to t to treatment each time Another case which was first treated in 1020 is now clin cally cured. The cond tion had been present for f ut years and had recurred after surgical A TAN S I S AL MID

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Konrich F The Re Sterilization of Catgut (Ueber Nachstenlisierung von Catgut) Arch f kl n Ch 1021 CX V 275

As a part of a large supply of catgut made during the war was found not sterile efforts were made to re sterilize it. The following three methods were tested

The Claudius method The catgut was placed for eight days in a solution of 1 c cm 10dine 2 gm of potassium todide and sufficient water to make ton c cm (Lugol s solution)

2 The Braun Melsungen method The catgut was placed for at least twenty four hours in a solu tion of 2 c cm of iodine 4 3 gm of potassium iodide distilled water sufficient to make 500 c cm and 500 c cm of alcohol

3 The Heusner method The catgut was placed for a period of several days in a solution of 3 c cm of rodine 225 c cm of benzine and 75 c cm of liquid

paraffin

Tests showed that only the Lugol's solution sterilized. Iod ne alcohol and sodine benzine solu tions failed so often that they proved useless As alcohol and benzine cannot soften the catgut the todine cannot penetrate it. The Lugol solution softened the catgut but did not weaken it any more than the other solutions or as much as soaking in water ZILLMER (Z)

Ruef H A Further Repo t on the Cl nical U e of Cutis Subcutis Transplantation (Wester r B trag zur klinis hen Verwind ig der Cutis Subcutisve pflanzu g) A h f klin Chr 93 c x 166

Ruei reports the cases in which cutis subcutis transplantations were done during the past year at the surgical clinic of the University of Freiburg

In this operation no free tissue transplantation is attempted but the connective tissue present at the

site is stimulated through irritation

The transplants are often taken directly from the field of operation but usually from the outer side of the upper portion of the thigh Here the cutis can be easily removed in one strip. In the stripping of the cutis the characteristic white net like perforated stratum reticulare of the subcutis will serve as a guide According to Rehn the stripping of the layer of cutis is facilitated if the skin is frozen with ethyl chloride The inclusion of the stratum reticulare in the transplant is recommended because of its high resistance

Cutis subcutis transplantation was used by Rehn ten times in cases of hermia once as a substitute

for tendon five times in loose joints once in a case of habitual luxation of the patella and twice in cases of fistula of the bladder The course of the cases has demonstrated anew that the transplantation mate rial under discussion meets the most severe mechani cal requirements Beyond this it is not remarkable as the cases of infection indicate. In histological sections the newly formed fascia and tendon tissues HACEMANN (Z) can be readily distinguished

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Schoenbauer L and Demel R Investigations of the Bacteria in Asentic Operative Wounds and the Behavior of Drainage Material (B kteriologs the U tersu hung n ueber den Ke mg h lt a ptische Oper tionswunden und ueber d s Ver h iten des Dras gem tersal) irch f kl n Ch: 10 3 C

The secretion was taken for examination before the suturing of the musculature in twenty one cases of thyroidectomy and was found sterile in twenty cases in which the duration of operation was one to two hours. In one case in which the operation con sumed three hours isolated colonies of staphylococ cus albus grew on bouillon and agar

After major operations on the stomach and gall bladder the secretion was absolutely sterile when the operation did not last longer than an hour and a quarter After operations of longer duration sta phylococcus albus usually grew on the nutrient media and in isolated cases Gram positive cocci In a large series of cases no pathogenic organisms were found in drains lying for twenty four hours in the wound cavity In a few cases staphylococcus albus staphy lococcus aureus and staphylococcus pyogenes au reus were demonstrated HOTMETER (Z)

Melchior E and Lubinski H The Bacteriology of th Cleansed Granulating Wound (Zur B ktern logied ge inigten granulie enden Wunde) Z talbl f Ch 19 3 1 1 71

There is a generally prevalent false conception that the granulating wound is a field of action for bacteria The authors therefore conducted investigations on the bacterial content of freshly granulating wounds

The secretion obtained with a platinum loop was transplanted to ascites agar Loeffler's serum and meat bouillon besides smears were examined microscopically A series of sixty nine cases in which only a single inoculation was made showed that the bacterial flora is much less than is generally assumed The specimens from fifty nine wounds were positive and from ten sterile Bacilli of the diphtheria group were found seven times and true diphtheria was found four times. The staphylococ cus aureus hemolyticus and the staphylococcus alives were found most often streptococci alone were found only once and together with other bacteria nine times.

In a second series of experiments it was shown by frequently repeated experiments that the bacterial flora of a wound is subject to considerable variation

AJESTHESIA

WORLCEAUTH (Z)

Totter W and Wheel r Sir W I de C Anæs thesia from the Surgeon's Point of View B ! M J 0 3 H 701

Trotter choose the anexibetic to suu the pair troular case Frequents use herpefers ether Chlor oform he employs for all mouth jax larvar and pharyax cond tions and almost invariably with laryingtomy or tracheotomy openings which render its use safer. He employs cholorom also in a large number of brain and spinal cases and for radical breast amputations. Nitrous ovide he selected of delicate or enfeebled patients and if necessary supplements it with pre-operative bypodernics of morphine local aniesthesia or small amounts of ether vapor.

Among regional methods he now considers spinal amsthesia safe but states that it is limited physio log cally to persons whose circulatory system is in reasonably lood condition and capable of reaction and is limited anatomically to operations a bind cannot be extended much above the umbuli us Sucral anaesthesia is used for limited operations to the perineum such as harmorinoid operations. Victor truth, amental to the properation of the control of the perineum such as harmorinoid operations of the chest and abdomen and to block the brachal plesus above the clavicle for surgical work on the upper lumbs.

Next to ether lo al o infiltration anæsthesia has the widest pplication. It is particula ly useful in all superficial and definitely limited di sect ons and when inhalation narcos. is contra indicate I.

Wheeler emphasizes the impo tance of constructive pre-operative preparation by alkalinizing the urne with bi arbonate of soda the avoidance of harmful purgation the administration of large quatities of water by mouth or of saline solution by rectum for ten to twelve hours before operation and in critical cases and those of children the adminisration of glucose for a day or to a prior to the surge call work. For cases of sudden collapse he tages the facil respiration the patients a longs being rather final respiration the patients a longs being rather by blowing into them cuther through the mouth piece of the ether instaler or through the closed fist

Boyd and McConnell consider oil ether colonic etherization especially desirable for general surgery

on the head and neck
Geo GE R McAulis M D

Sington H Anæsthesia for Child en B i M J

As the child is a more delicate organism than the adult it is necessary to conserve his strengthin every way as by avoiding harmful pre-operative stars, at the constraint of the properties that is routine urnally a which may reveal a carbolum when carbolic formentations have been used or an Actionum of the checkops from apparently very sight changes in the diet and is far more prevalent than is generally believed it was found in 5 per cent of cases. To prevent this condition glucose should be given for two days prior to opera to make the constraint of the constrai

Ether is the anæsthetic of choice but nitrous oxide is selected for such cases as hypertroplue pylor c stenos so rintussusception and ethyl chloride is used for dental e tractions. Gentleness and understanding are especially desirable in an anæsthetist for chil Iren.

C nyalesc nee is rendered mo e comfortable by instilling a drop of castor oil in each eye wh n the diministration of the amesthetic is finished by sponging out the mouth with normal saline solution and by lessenin postoperative pain by rectal sed attives of poin sum b omide and aspirin

Groupe P McAULIN M D

PHYSICO-CHEMICAL METHODS IN SURGERY

POENTGENOLOGY

Coolidge W D and Moore C N A Water Cooled High Voltage X Ray Tube im J Roenige sol

The authors describe and illustrate by diagrams a new type of tube with a water cooled anode and a high capacity They discuss also the type of trans former and insulated water cooling system most

suitable for activating it

The output of the tube which has a capacity of so ma and 50 000 volts is greatly influenced by the type of generating apparatus and varies also when lifferent transformers of the same type are used With the interrupterless type of transformer the tube operates better with a balla it resistance control than with an autotransformer control. It gives a greater output with a constant potential continuous current type of machine than with an interrupterless

As compared with the present type of tube operat ing under the present average conditions (5 ma and 200 000 volts) this new water cooled tube gives four and three tenths as much \ ray intensity at 30 ma and co coo volts eight and twenty seven hundredths times as much at 30 ma and volts and fourteen or fifteen times as much at 50 ma and 250 000 volts. With these high currents and voltages the \ ray intensity is not p oportional to the miliamperage probably because of di tortion of wave form but is essentially proportionate to energy input

The question of the desirability of such an in crease in \ ray intensity in therapy must be deter mined by the members of the medical profession CHARLES H HEACOCK M D

Rieber F Standardization of Roentgen Output

Rd I ty 93 153

The problems presented in standardizing roentgen

ray output are defined by the author as follows I The roentgen ray tube should be treated as a converter Its output of useful rays may be deter mined (1) indirectly by making measurements relative to the electrical input and estimating the probable output and (2) directly by measuring the output itself

2 The choice between these two methods de fends on (1) the accuracy 1th which the final quantity of radiation may be determined and (2) the complexity and e pense of the apparatus involved and its ad ptability for gene al use

3 The indirect method (measurement of the in put and estimation of the output) is in wide use today but 3 very maccurate. If it is to be use 1 one of the following additional steps must be taken

(r) If the cause of maccuracy can be determined to reside in the measurements of input additional measurements or safeguards must b developed and pro ided so that the reading of the input may be made to mean something definite in the way of out nut (2) If the cause of maccuracy can be determined to reside in the roentgen ray apparatus supplying current to the tube this apparatus must be modi fied so that the di crepancy will be reduced and the present method of measuring input may give a satisfactorily accurate determination of the output

To determine the relative availability of the direct method of measurement, the folloging factors must be considered (1) Can the beam of roentgen rays be used to produce a measurable effect on some indicating substance which will correspond to the biologic intensity of the action of the ray? (2) Can this indication be made to operate an apparatu sufficiently dependable for general use? (3) Can the indication of this apparatus be made to apply directly to the problem in han I without the neces

sity of computations or corrections?

The variou points of the outline are given detailed consideration and the inaccuracies resulting from measurements of dosages depending on input even with the most modern appliances are pointed out With a view to measuring the roentgen ray output directly in a manner adaptable to general use the author has devised a dosimeter which he describes The advantages of its use are given by him as follows

The skin dosage is obtained lirectly by reading the meter indication without the necessity for com-

puting the square of the distance

2 The total dosage is recorded even if the an paratus is running with the milliamperage a little

too high or a little too low

3 If filters of a known thickness are used and the skin area is placed at a known distance from the target a certain depth dosage will be given by the given skin dosage and this depth dosage will not vary greatly e en for considerable changes in the spark gap on the apparatus during operation

In conclu ion the following summary is offered I stimating roentgen ray dosage output in terms of the mill ampere and spark gap input to the tube is highly inaccurate and unsuited for the purposes of

Occasional measurements of the roentgen ray out put by ionization methods are of assistance in ena bling the operator to approximate dosage more closely but such occasional measurements do not by any means define what is happening continually during the use of the machine

A metl od of measuring dosage continually while it progres es an I ad ling the total effective value of 370

dosage given to one patient on an easily visible scale has been developed and is presented here with Tests on this method to date indicate that it will

be sufficiently reliable for general use and that it will provide an interchangeable standard of measure

ment Apolph Harring M D

Gottleb C The U e of I odosi Curves in \ Rav Therapy Showing the Inaccuracy of the Des auer Charts A J R Ige of 10.3

In the experiments reported three methods of measurement were used (1) the roentgen dosimeter of Siemens and Halske (2) the neointensi ereform apparatus of Dessauer and (3) a photographic fim In all astances the measureme ts agreed 1 1th those reported by Holfelder

When compared with Des auer a results the following differences were noted

The primary cone was sharply defined instead of being surrounded by a wide and only slightly weaker stray held. The I tter can be neglected for therapeutic purposes

A contraction of the stray field was noted at the surface and a second contraction at greater depths instead of a divergence below the surface 3 The intensity value was lower pecially at the

greater depths

Depth	C 27	T m ta rat from	F m la ral from	S to I terali m	
0 2 4 0 8 10 12 14 6	100 (100) 95 (79) 75 (05) 54 (55) 39 (40) 25 (39) 20 (33) 4 (6) 9 (22)	98 (94) 90 (76) 70 (0) 5 (5) 37 (44) 27 (37) 19 (31) 14 (4) 9 (1 (57) 7 (51) 3 (45) 4 (38) 0 (34) 5 (29) 2 (25) 2 (75) 5 (5)	\$ (27) 9 (27) 1 (5) 1 (25) 2 (3) 9 (c) 6 (6) 4 (3/ 3 (3)	

th int as 4 There was a prominent bump at the beginning

of the curve instead of a logarithmic curve CH RLES H HE 400 & M D

Cushway B C The Pre ent Statu of Deep \ Ray Therapy Ill n M J 1923

The author reviews the appa atus used the tech move employed, and the results obtained pr or to 1002 The improved and more powerful equipment of today the present better knowledge of the physis nvolved and the mo e accurate modern method of measurement are contrasted ith those of the arher perod. The results obtained ha e not improved in pr portion to th in equipm nt technique and sci nt fic knowledge This may be expl med in the basis of the clinic i knowledge and judgment of the pioneers in roent g n logy

However good results are being reported mo e uniformly and relief is be no given in many conditions in which & ray treatment was not attempted in the earlier days. Lesions too deep for treatment 1 ith the earlier equipment are responding to the use of 200 000 volts. The author cites several cases of deep malignancy in which improvement was noted following deep therapy Four of these were cases of

carcinoma of the resorbingue Norking in a po tgraduate institution Cushway has been impressed by the necessity for a better understanding on the part of the general practitioner regarding conditions amenable to \ ray treatment To malignance and the lermatoses ve must add gl ndular hyperplas a leukæmia hyperthyroidism Dersistent thymus disturban es of ovarian function uterine fibroids otosclerosis hypertrophy of the prostate hypertrophy of the tonsils Leloids and conditions in which it is desired to influence the cl tting time of the blood

CRARLES H. HEACOCK, M.D.

Dess per F The Tr atm nt of Carcin ma with the R entgen R y Lectur s on the Physical Bases of Deep Therapy (Z r The api des Ca ci rhy ik I h n Gru dlagen d r I fenthe p) D sden Sienk ff 93

The author reviews the development of deep roentgen therapy On ac ount of their great number he does not mention the various arters on this subject referring chiefly to his own o k to expla a the action of the roentge i ray on de p tumors from the physicist's poi t of vew

In the first lecture which deals with the problem of combating carcinoma with physical agents and the p ssibility of its solution the author discusses the manner in which the electi- e action of the roent gen ra s can be applied t the treatment of de p foci of pathological cells without damacing normal tissues e pecially the skin and defines the terms and qualit the homogeneity quantitati e R'y of sho t wa e length act differently than those of long wave I ngth nd consequently have a different effect. The refore qualitat h mogene tv 15 essent al as well a quantitat ve hom generty In order to measure accurately and to utilize dif fe ences in sensibil to not nly the same kind but also the s m strength of rays mu t be used on the different tissues

In the second le ture which de ! with the elec trock mical b si of deep the any the author dis cusses the possibility of obtaining homogeneous av nes bu (r) nl rging the f cus (2) cre ting hard ray and filte 1 g th m and (3) c ossfiring In he des ribes his t ansfo mer and this co nect di cusses its mp tan e in th co struction of a substantial appa atus

f th penetration The third lecture on the l nd distribut on of the ays n matte gives in the form of rules and formulæ the r l tr n hip of hard ness and efficien y to the tension and the elation of absorption and rest tance when hard and soft rays penetrate bodies of high and low atomic weight Desauer describes in detail the methods by which he and V-prelifer measured the depth doses in the water phantom and compares their findings with those reported by others. He gives also some of the known isodose curves of longitudinal and cross sections through various single and combused ray pyramids. On the basis of his investigations he rejects the cross fire method with many small field because it is of doubtful value in the raying of large field. In conclusion he discusses the possibility of increasing the depth dose by the application of additional state.

In the fourth lecture which deals with the practical application of the physical principles of depth raying. Dessauer gives the practitioner practical advice with regard to the plinning and technique of raying. The first rule is to form from the complicated geometrical shapes of the human body a simple shape by the superposition of layers. When this is done it soposible to know with exactness how the rays it libe distributed internally. In cases of carcinoma of the tongue Dessauer fill the mouth with much and in cases of carcinoma of the stomach with water containing a peri stakis subhibiting drug. This he does to establish the same favorable conditions that obtain in the

uteru The good results obtained in carcinoma of the uterus he attributes to the location of the disease area in the depth of a large zone

With the aid of numerous isodose curves in one plane the type of rays the focus distance the size and number of the portals and the position of the central ray are made out. To perform raying the author requires a holder attached to the raying table. The Dessauer Warnekros holder and its use are described with illustrations. Wigning (2)

Warren S L and Whipple G H Roentgen Ray Intoxication J im M 1ss 1923 lxxx1 1673

The finding of studies made on animals indicate clearly that the intestinal cptificium is peculials essistive to the hard roenigen rays used in modern sensitive to the hard roenigen rays used in modern the sensitive to the hard roenigen rays used in modern the sensitivity and roenigen ray intoxication. In this article Warren and Whipple review in the light of this knowledge some of the scattered and in complete case reports to show that the intestinal epithelium in man is sensitive to the hard or short wave length roenigen rays. These observations in deate that care and judgment must be used in the exhibition of such rays when the intestinas are included in the field of irrad-MOOLIE HERTING M.D.

TEODER THREE TO DE L

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE PIGUES IN BRICKETS AT THE RUNG OF A RE ERE CE INDICATE THE PAGE OF TES ISSUE ON WHICH A ABSTRACT OF THE ART LE REFERRED TO MAY IN LOUND

SURGERY OF THE HEAD AND NECK

of the scalp

(309)

Head and its tratment E Digriuss Dutsche med

Lastrad grapt & Knov 1 ch. Rad !

The t atm nt ff ctures f the skull with hypot of the br paid I R I Riche Bill et mem Sec

res 161 Arch & d | & Il ctrotherat) 0 1

Fit reboyncos ithtilaul

Wehnschr 023 21 1438

loch de l r 923 xl 14

Ilate 1 oftelacea dnek JESTET Nok M JAM dRe 9 Jest 576
Paott Ill ung cute up at ppendeus M
T Storra Surg G N Am 1933 1 396 I II FIS ER P toper t if cti p rotitis [309] Surg 19 3 lex 11 508 [309 Obse at n ntleet lgs fostcoms it of th 1 w If BR sent Dutsche Monat schr f Zah heik 923 z! 641 Resect a f the uppe jaw 11 Picnies Dutsche M nats h f Zahnhulk a 3 ls 5 3 Eve Injuit the eyes from b ke glases 1 Ben LEY Moore C nad an M \ J 1933 11 900

Ocular interpretati 1 th d gnoss of st m c disease II II McGurer Vig M W th 1943 1 63 An woperat nfrptos s thishort n g fth I v tor and t rsu L DE BLAS O ICS is h Ophth 923 h Sympl ph n r l ed by th se f w x m uld and thin ski gr ft report of t o ases W R. PARKER J Michigan St te M Soc 19 3 x 11 5 7 The ett logy and e lut n ft ach m A VICOTIC I Pog de la lin Madril 1923 xx 662 The t tme t of tr ch ma by sunight E Cauros Bazil mid 93 3 3 3 3 The tratm t ftr b anatomopathol great find ing hich mod fy the class cal co ception I this di se Nicolici I cg del In Madnd 921 X 1 744 The in a em nt I het r ph ria W ZE THAYER Atlant M J o 1 xx 11 6 d th I ma of the mary body T H BUTLER A case f and E. W. A. t. v. R. Bet J. Ophth 9 3 549 An unusu lease form leat h. A. O. I Friest Am N Per Id ib its origin A Masti a dE Aprocue L raint Sem n med 19 3 1x 33
Pelmnay too th Vray tr twe t of unt est t al

Le 1 tis H'H I Y LATER and E C PEUTINER But M

J 1923 11 1 52

The hors I ke atople to peration a dat A FLCINI nd II S (RADLE Am J Othth 19 3 35 1 998 It I gy of nt L. E Ino sa if \ L Brow Im W Vs 031 770

Imabi 1 t occurr g the c se f no disse
amoetia I Mills Vr h Ophth 913 t 55 (310) se fine dese title [310] I i t ny ngi scom an w te in pu L TOR K 1 h Chith to 1 1 574 n no linates a le loleges G II Mu r wj In MJ) 3 xl 4 Si is nd llat din ct ppl \ M BLACK Am. J Ophth 0 1 3 5 1 090 Subc ny cti ald la t fthe yell In sith the report fth ca. s. T L B 1 1 K ntu ky M J 193 tu 644 Tmt stat bdhro fth n 1311 1 D 67 zar z Navarro Re d m 1 y rug d l fl b na 923 1 877 Midemad teats t t (S Deany] Im M Ass 9 3 lxxxx 200 Cat ra textra t pe f rmed by P f J sef Melle of \nn 09~9 xxxi 2086 Phaces L Mils Mil Ophib q ; 3

tiaplistipt utppseeds uta posedu Mot r Arch Opith 1023 in 554

Elect loc lizat the ye f b t raf minfort teth R L Hann h h t vid 9 3 8 8 the ye ib t naf minf cted Thritin Hociitin threadt fi des HAL Do Vign With 931 Chr g fact ne ta hocal post at p bi t lg al fi mmat n f th ye th a report of case A H Those ss v A cl (whith q 3 lu 546 cul t ben I Destructa e int C + Lts y Am

J Ophth 933 vi 9u8 Vilk nject phth in ig D W STEVEN O Wike nject pith ir ig i Oh Sti M J 93 8 I trace term in t n il t t rfl r bt turphy 5 h C ron Bi Joshth 93 11 506 Th tech 70 1 m un behind it JJK But J Ophth

1 895

Scintillating scotom M M Amar S gl méd 19 3 XX 1270

Discussion on the clinic 1's gnificance of scatom try A H H SINCLAIR G HOLMES M HEPBURN N B HARMAN and others Brit M 1 19 3 11 1258

Blindness from the use of methyl alcohol with the epo t of a case H Mourron and E C Mourron J Arkans s M Sec 1023 XX 113 Hemia pia as the sole ch ical f at in untreated

seto dary syphilis A W Signet and A R Fraser Brit [314] J Ophth 1923 VII 525 The modern electric ophth Imoscope its disad nlage and ad antages R E WRIGHT Brit J Ophth 1923

550 Small electric ophthalmoscopes B Graves B t J

Ophth 1923 vu 56 A detail of ophthalmoscop c technique which simplif s the xam n ti n of the fundus E A CARRASCO Re

méd d l Rosa 10 29 3 xu1 348

The ophthalmosc pe in g neral medical diagnos s E

JACKSON Atla tic M J 1923 XXVII 127

Sht lamp microsc py of th living eye 11s and to h sto

l gical research a d's a refinement in ophthalmic di g nos s R Von der Heydt Ohio State M J 1923 XIX

Professo Vogt a course on 1 t 1 mp mic copy T BUTLER Brit J Ophth 923 11 551

Acute opt c neu itis from phe thmo d l sinusitis F Demaria Re de la Asoc méd a ge t 19 3 xxx 1

A case of etinal detachment in a pilot of the a U S Army H C NEBLETT Mil Surgeon 923 bu 6 5 The sgnifica ce of deep oc l pain in retinal d t ch me t J W Charles Am J Ophth 1923 3 s vi 982 Int a-ocul resarc ma E C Foore Neb aska State M

1023 VIII 443 Inflammatory pseudo tum r of the orb t W L BENE DICT and M S KNIGHT Arch Ophth 9 3 h 58 N [314]

3 s vi 985 Selecti e thermotherapy W E Shahan \m J Ophth 1923 3 8 1 978

Ear

d pth below scaled a spinate not the length scale scott of the destrict Hillstranger locky Sales I oc Ry Sc Md Lod 923 zvii Se t Otol C agential be t of the right ea with a lift of the ft uppe eyelid F P ANZINGER Oh o St te M J 19 3 X1 860 Otitic chilst 1 mat S MACC SMITH Ann Ot 1 Rhinol & Larymgol 19 3 Ch on c ot ti ebr 1 bs CARRASCO S 1 méd 923 lxt 58 Ac te pp ati tit med JI a St t M Soc 93 tit mod fat CC Ios 500 Un ualforms of ten pr! t tt m da wth
peilt fere t in 1 m t f ramal nerves II
IEDENWALD d M L BR TSTEI Larying scope pe i l'i fere LIEDENWALD t IEDENMAN

9 1 to 1 for 1 term in cute uppur

1 ic 1 n for 1 term in cute uppur

of the md lie r P D K 150 Laryngoscope

1 15 15

GALB AITH Objo St t M J 93 x1 86

Klebs Loeffler infection of the middle ear and mastoid R WEBBER Ann Otol Rhinol & Laryngol 1923 XXXII Masto dit s in infants W H JOHNSTON J Iona State

M Soc 19 3 xiii 493
Suspected mastoiditis clinical diagnosis with special

refe ence to the interpretat on of the X ray pictures H M Hays Laryngoscope 1923 EXXIII 924 A case of acute mastoiditis complicated by facial paraly

sis operation recovery E U WALLERSTEIN Virginia M Month 1923 l 615

F e atyp cal cas s of mastoid ts in child en J C McDotgall and W J KNAUER Laryng scope 1923 036
The indicat one for the radical mastered operation J M

SMITH Am J Surg 1923 EXEVII 316
Salivary fi tulæ after mastoid ope ations L NATANSON

Zischr f Hals N sen u Ohrenheilk 19 3 v 176 The work of Sherrington on the physiology of posture I M R Walshe Froe Roy S c Med Lond 1923

xvii Sect Ot 1 4 C nimb t n to the pathology of the l byrinth J S Fraser An Otol Rhinol & Laryngol 1923 XXXI

Experime t I pby tology of the labyrinth

LLEIN J Laryngol & Ot 1 1023 XXXVIII 646 P oc Roy Soc Med Lo d 1023 XVI Sect Otol 6 Disc ss on on labyrinth de iness D McKenzie Brit [J 10 3 11 867 [315] C mplete labyranthine ope ation in a case of purulent labymathius man I ted by abscess of the po terrebral fossa J Basavilbaso R v de la Asoc méd a gent

9 3 xxx 1 553
The Ste gertest f the d tect nof simulated unlate al total deaf s M F Czubak La yngoscope 19 3 xxxiii

Deafnes a sequela to m mps G H WHICUTT Ann Otol Rhin l & Laryngol 1923 xxxii 1 2 A plea for n international n e t gat on into otoscle os a d lhed forms of deaf es J S FRASER Latyngoscope

9 3 xxiii 89
The aya n adju ant in the teatme t of impaired hearing J J RICHARDSON Internat J Med & Su g 10 3 xxxvi 510

An app tus for dium pu ctu e i otorhi ol gol gy I Samengo Sema a méd 1923 x 3 9 tus for dium pu ctue i otorlu ola yn

Nose

Imm diate d late tr tme t of nasal fractu es Comen La yng scope 1923 x 111 847 [316] wadjustabl nasal clamp L P Berne J Am M [316] 1923 IXXX 878

Med n fiss e of the n se by a cong nital dermo d ESAU Frischr a d Geb d Roentgenstrahle 1923 XXX1 26 Deformities of the yphilitic ose H D GILLIES Brit

VI J 1923 977 Co genital t e Co gental te of the postnasal orifices J E L BENSORN A Otol Rhi ol & Laryng 1 19 3 XXXII

Sthma difetons of the accessory nasal sinuses t dy based s ty two cases C A Hearty and S J C owe Bull Johns Hopkins Hosp Balt 1923 xxiv

A u ey i the hay f er q estion-A crit cal review of the tuat on clat e to the toology and tr atment O J A tudy of sin s ti in child en p eliminary report I M Lege Larying cope 1923 Exxist 94

Oste myel to of the orbit fr mextenu canu decase J 1 Morgan Lary go ope 1923 xxxx 945 The relat on of parantsal army disen e to pulmonary in fect on V W FISCHBACH Cin innati J M 1913 is

Ch lest atoma of the fr nt I a nus II We Ler Be tr z klin Chir Day cxxx 213 The stimul tion I ctive pulm nary tuberculous by painless mar llary s nu. to 1 L. 1 AT 8 Lancet rozz ccr of 9 (317) Ral cal operations on the maxillary s nusa i dam ge to th teth k II In Arn Ot | Rh no! & Laryng !

3 X XJ TO Th an toms I the ph of I fi sure C Serven tun Ot i Rimol & Laryng I 1923 xxxx 1109 The tr atme t of hin larying I meal tuberculos s by

Fin en ight bath and it results () Stra purne Lan el 1023 c 1 36 Report fac sh ingth eults of the H lle and the

Laute blag r pe at n f r o na W MITHOFFER la you we pe o a zero ogs
Furth r but If talt es I llowing operations on the nos and throat II W Lors In On I Rhs of & Latying 1 023 xxx1 2103

V 1c implications an chronic cocain in D Mazza

Pe d la Asoc med arg nt 1913 x xx1 524

Mouth

The hnge of The thinge of I rad ography C O Sturson Int in t J Orthodont Oral Su g & Lad graphy to 3 () age in tooth structure result g from deferent d ets J M assitt J Am M Ass 10 11 1 1665 [318]
D m limpacto sanitheir sequele 1 1 Thore J (31%) \m \1 Ass 1923 lxx 1 1064 I sport of a case sh n g the conservat n of a de 1 p-g tooth in th prese e 1 yst 11 P Horrmany In t mat J O thod t Or 1 Surg & R diog aphy 1923 it

n the p a t cal value of the C ld berg In est gati polymi robic stock ac in in the tr tment i I col r py rihera I arsov and Lisoutov Bruxell med 1923

17 145 fu nel a fth face and their lat nt d talsu ger; GREVE De tsch Monates br f Zah helk 923 ali s les on in

The te tm t I precan ero s and can s les on it th mouth W H Schwidt N Y rk W J & Med Lee 39 3 CEVIL 732
Metastat c epulis M Weicht ar Zent albl f Chr

1 1 13 5 Praged nice givitis B Tisuter B ton M & S J

1923 Cl 08 Conge tal hemimac ogl sa thed at the ce of th b comotor appa t sof the s le oproset the lungu !! s J N Roy Surg Gyn & Obst 1923 xx 1 787 Ca chema of the toge D Prix in lac dem d Uni de Nio t id a 9 3 vin o58

Throat

The ad ancement il yog logy nd ot b gv a pl af adeq at tain g d cl c ope ative tion A adeq at tain g def cope attre tion A L
TURNER J La yngol & Ot 1 sg 3 x x 2 6x
Al ge pharvar al di ricol 3 x x 2 6x Al ge pharyng al di rticul m cur d by operati n two stages I Back and L Coll nor Lane t 9 3 ccv A case of pharyage ld et ul m T I DUNEIL P c R y S c Med Lond 93 xvu Cl 5 t 4

Mesor haryng al turn r treated by r racnd rati m pun ture I. Sint on Rer dealer a gent 1323 x x 1 gig Carcin marcoma of the hypopharyn Flle w heat z Zischr i lish haven v Olm za

The e cognit is I tonuilly extreme R.R. tila t c M J 1925 axvii 60 The relation I thoul and ad nothit they de el pen nt of el lien T D Waters le 1 1.

beorg's rore in 45 The in licate ns ni el n cal results in meries ... in hypertrophy of the t nads. Pr a Farmer

LARRE S glo med 1921 tar 1019 Electroc agul t n l the t estment of threa trophy of the to the Lazart treb d med, and especial to 3 xin 538

They act north paraton illar tissues t less study i the eti log of post to select of fare absects C Frerenders dill For. Am J M & P cl i Ro The he tass nad n tome firth remo al law : I Is ketter Ja J Missouri Stat M An. 1820

Neck C gent I mall rmats in I the neck | LLaudis L d 1 two med arrent 1923 | 17 034 | Lymphang tie abscess of the neck | P Clauser Lymphany tic abicess of the neck

Median e ngenit I fistula of the neck. L Prota 14 It I di hir 19 3 1 441
The devel pm tal topogr phy of the arya inde

and I ngs i the fune born infant and child. 6 l
Non-tex Am. J D. Ci id. 9 a xxvi 555.
The d. ctoscope of Ila i ngc. (A) may in the wagest a d surg ry fith larynx 5 I RATE Laryngoscope 19

1 945 The 3 ly d g osis of laryngeal tuberculous F & Springer C l rado Med 10 J 23 340 The diagnous and treatment of laryngeal t berew 1 | CETE (GOLD and) | MIERES Demana med 12

X T 1302 The pe at cor ects n of the bilat ral median po we Ithe ocalco d lift is Zesch I Larraged khank

some beerato n laryngof s r and to techno a F II Dr GLE Pratt | 1 023 C 1 356 Carein ma of th 1 rynx F J Novak III 013 1923 1 335

To case i persite the glossald t GCEFF
Rv de med y rug del Hb 19 x 661
Th pasthy fellod their tion duse in com
in n aline i HWC Virs Am 3 d 1923 in

10st p at tranvand tep ton M Grasul d k or say Mich 1 kl Ch 1923 cxxii 699 G S WILLIAMSON Lact 19 3 cc 337

inport c I Lolds of ther dehi ler Med 1923 XX 11 B E p rime tal 1 sfg t p thelt 5 m of th

I ymp the ict ti that del nd Il Rei H & tymp the ict til 1031 a gina Weel a se to the Eksch i Ch 933 iv 70 Chages the thy dgi in potteous gran of the extremit Vijco ov Libbic Lir 931 De t be Zisch f Ch the extremit

Thyoddy Inti O Ros Clylb 93 n

P tfalls in the management of thyroid disorders C W ROBERT | Med Ass Georgia 1923 XII 444 13181 The diagnosis of myxed main adults tre tment with

thyroxin A S Jackson Illinois M J 1923 Thy 415
The effect fiedine on the thyroid B BRETTNER Wien

klin Wehnschr 1923 xxxv1 603 The pre ention and treatment of simple g ter O P

KIMBALL, Northwest Med 1923 XXII 442
Gott r W A DENNIS J Lancet 19 3 xhii 6 7
Investigat ons on the v 1 e of the viscos ty fact r in the f net o I d gnosis of go ter W von Frey and E

STARINE Klin Wehnsch 1923 ii 1742
Theg iter problem J W SRUMAN J I w State M

Soc 1923 x10 5 7
The h stological a d clinical fi dings in struma in chil d en in lowe Franco ia L STARNKE A ch f kl n Ch r

19 3 CXX 193
Gotter in p egnancy C E Boxs J M chigan State M

Soc 1923 XXII 5 1 The path logical d chinic I study f 100 gost r cases Study III The thyr d W S Thomas C W Webs and E A Baumgartner Chit n M B ll Chiton Springs

Yok 1923 ix 45 Acet en the exp dar of goiter pt ents af w deter

mi I one of the cha ges in blood ac t e duri g thyroid per to s St dy II The thyroid R S Hubbard and C W Webs Cl fton Med B il Clift n Springs N Yo k 0 3 12 1 6 Practical pplic ton of basal metabolism J G M
BULLOWA N k M J & Med Rec 1933 cxv 757
Basal metaboli m in the diagnos s and t atment f thy

r d disease N B FOSTER N York St te J M 19 3

x 454 Tucgotr TM Joyce Northwest Med 1923 xxi

Pel c find gs in cocases of to c go ter A E HERTZLER Am J S g 1923 ER 11 274 [319]

E ophthalmic goster with cute myxcedema complicating postoperative convalescence H J Mckenva Surg Clin N Am 1933 m 1611

Thyrot ricosis-Graves dise se C C NESSELRODE

Surg Clin N Am 1923 11 1671
Pe-operative a d postoperative treatment of Graves
disease with quinne hydr bromide O Kleinschmidt

Zentralbl f Chir 1923 1 1425 Roentgen therapy in exophthalm c gotter R SEILMINN (319)

Strahlentherapie 1023 XV 450 Extirpation of the sympathet c gang! a in e ophthalmic W REINHARD D utsche Zt ch f Chir 1021 roster clere 177

ray the any of the thyroid gland J G Williams Med Press 1923 BS CAVI S 8

A p eliminary report of the action of buried radium on d seased thyro ds in man J O Bower and J H Clark Am I Roentgenol 1923 x 875

Am J. Accentigenos: 923 J. 275
The cons reality medical and surg cal treatment of gotter J. C. Moore. Northwest Med 1023 Xm 452
Von surgical treatment of gotter T. B. Murphry Northw. st. Med. 1923 Xm 449
To. C. decoma of the thyroid. C. C. LESSELRODE.

Surg Clin N 1m 1923 iii 1677
The s gnificance of basal metaboli m d terminations for thyr d surgery A HELLWIG Khn Wchnschr 1923 H 206

The s gical t estine t of hyperthyroidism G W.
CRILE N York State J M 9 3 xx 482
A case of carri oma t the h gual thyr d with metas
tases 1 the hugs A F TYLER J Radiol 1923

Some effects of thyroid ctomy in the she p S Stursov N York State I M 923 XXI 486 Tumor f the carotted gland with the St kes ld ms syn dr me G W BOOT Ann Otol Rhin l & Laryngol

1025 IXI 1241

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves

He dinjun's I Sacks J Am M Ass 1923 I 21 2150 Cranial injuries G T VAUGHAN Virg a M Month 923 | 60

Cran ocerebral traumatisms and c rebral concus ion G HEDREN Acts med Sc d 923 hx 134

Som notes on traumat cally creased bras especially with eg d to ope tu interfience fo d ag Se nd tors 1

nd to23 1 58
Pot traum to intracranial hypertension with e cess of normal fluid r pe ted lumb pu ctur ecose y Lou BARD BRUE and OLINCING Bull et mem Soc de chi d

Pa 1933, th 1459
Cerebral pu et e d e tricul graphy in diagnos sand
therapeut es II C JACOBAEUS Acta in d Sea d 9 3

Cereb alp um graphy as u sid u the lyd gu of hydroc phalus O S Wyarr J Lanc t 1933 zl 1 6 lvdgn s Ham mh ge of the cer bell m R CRIAPPORT a d G S CURA Semana med 923 xx 741
A case I ham trhag int the rach dea ity II C

HILDRETH J Roy Army Med Corps Lo d 9 3 h Cistern p ct e K Eskuenten kin Wehnsch 1923

Sn Il cysts in the thi d ventricle s the cau e facute s termsttent intern I bydroceph lus with lethal o tcome

C SUNDBERG Acts med Scand 10 3 l t 423
Syphilis of the ventricles L E HERALCAD ad] STRANDBERG Acta m d Scand 1923 1 550

Bra absc so of out c origin the lift moro-occipital region with li of the typical symptoms pe t n r covery 1 Zeerowski An Ot 1 Rh ol & La yngol 1923 XXII I 24

Traum tic cyst f the b in C E Downan I Med is Georga 93 xii 460 The cln cal m nil statio s fe eb al tumo s G M

Holmes Cla gow M J 1923 ns Tt 1 24 [321] Hypophysisa d hypoth lamus E Sjovati. Acta m d [321] 923 lix 406

Thre cases f hypophyseal t m rt eated by \r; G The ecases i hypopayscal i mert careu by very over Genefocty. The tap of Geg nwe to 3 km 354. Tumor of the tuber c er um. M. ALURRALDE S. BALESTRA. d.M. SEPICH. Sema a méd. 1923. XIX 1338. Intra ran I tum rs II S Southar Lancet 1023 CCV

The sympt m of ca dal tum s A WALLGREY Acta

med Scan 1 1933 I x 453
Cerebr l gli ma with rlyp es r manifestati n upon the opt c chiasm G A Larsov J Lancet 1933 il n A cas of cerebral syphil ma Sicilia Arch d med

cirug 3 especial 1923 xiii acad méd guirurg españ 637

Facial par lya d to a cerebral tuberculom : child of 5 months M H BORTAGARAY Sema med 1923

Newer method a the surgical t tment of t mora f the b ain and spinal cord A Wintervirz Gyogyaszat 1923 40 56 66

Hamo ta brain ope ation E HEYMANN Zent Ibl f Chr 1923 1 1497 A case of e tradural absces Casapest's Arch de med crug yespec l 1923 xiii acad méd gu û g españ 63 s l g glion neu alg a M H Hoop Virgin a M

Month 1923 1 6 Som cas frfrrd pain f m the nasal d ral cauties J H GUNTER Dental Cosmos 9 3 1 v 1 98

Some d'sputed po nts in the phys I gy of the tri eminal A BRAND O FILHO Arch b asil de med 1923 XIII 1085 urotomy fo trigeminal neuralgia P Petrogasseria

L Minizzi and R Fi ochierro B! ytr b d 1 Soc de cirug de Bue s Aires 1923 vu 724 A case of p ralys of the g t hypoglossal

s bocup tal d sease S VACCHELLI Chi d g i da movim to 923 vii 850
Septie m gt WR Rainey a d L B Airone J
Am M Ass 1923 I 1 1516
Ol g nous d pl cocn meningitis with p n need

spin I syn plom and p rul t sp al fluid reco ery E BLOED OR Zischr f Hals Nase u Ohrenheilk 19 3 The dag osis f tra mat c m ningit E Merre s

Klin Wehnsch 023 is 084

Spinal Cord and Its Covering

Ep rum talco deru hes with especial fe cet th mech calfactors; I ed a d's bsequent cha g the as f the co d'aff cted J I McVeion Arch S tg 1023 VII 573

Chest Wall and B east

The treatm nt facute matts L G Grer Sgl

méd 1923 l x 985
The s gnificanc i serohæmorrhagic hæm rrhagic
d ch rg from th mppl E. M Mill 2 and D Lewis

ZO RAGITY Sem med 1923 737

Mult pl cut eo sa d isce l m tastases of can r of the breast C DOMINGUEZ A D Cis exos a d J J PUENTE Rev del As c med rg t 1923 xx 683 Roentren av tr tm t fc c f the b east II E Roentgen ay tr tm t fe c f the b east H E WALTHER Schweiz m d Wch ch 19 3 lm 747 [324]

Trachea Lungs and Pl ur

R po t f a ra c e f g tal tra heo-œsoph g ! stul H R LOHNES Bull Buffal Ge H sp Buffal fietul C ereports fagme t fgl ssi th bro ch s ald d by th r entge r y P P VINSON and C G SUTHERLAND R di ! gy, 1023 1 238 Dagn is i cases of f reig body in th lung H L BAUM Col rad M d 1923 xx 333

Experime ts n local pecific therapy in pol myel ts th utili to of hypert c soluti in the serum treat m at if e periment I polomwel tis W. L. Aveock ad H. L. Augus Bull. J hn. H plans Hosp. Bull. 1923 XXX 161

Peripheral Nerves

Th nflue of the osm tic p es ure the life i nerves rat I TANEMURA. Uchi J Lape Med 925

Peckl gh use s disease W J Frick d R D
IRLAND S rg Cho N Am 923 ii 1547
I ra hi lgi I Hene rts Act med Ca d 193 lix Bra hal pl Bra hal pl oot synd me in cae f e rism of the descendig ta C JUARROS Cl y lab 923

I h

tms U CAPI I lichn Rm 93 prat 65

Symp thetic Nerves

Left supeno re cal ympathert my u der local asthesa i gr pe t ns J H BACO J Am M R ym i di. ase t oph culcer peri rterial ympath t my I D Twynan rg Cli Am 923 in

ha ly penf m al ympath et my for circulat ry d to ces of the get toe M Chelassu B II et mem.
So d chi d F r 9 3 h 1383
F rth expenences with it symp thetics F Bree.

No. Kl. Whesher 933 u.S.

Noserv t s based n fifty two sympathest mes kurmenta. B. Z traible f Ch. 9 3 I 434

The p d ucal turn frensati aft rresett of the sympathet rees Jean and D Martel Bill timem. Soc d chi d Par 923 xli 507

SURGERY OF THE CHEST

[323]

Their im tofth pulmonary mplicat flydtd cats open g t th b ch C A Cas ako d S Mazz Senana méd 0,3 xxx 95 Th it s d th t perat at lug b cas H W Lynan J M son Stat V Ass 93 x_418

L g b cess foll w g t llect my J R PEABODY
t cky M J o J zzi 69
T chniq d descript n f pp rat s f p oducing pp rat sf p oducing art fi alp m th O LINDBOW At med Sca d 93

9_3 1 t um th tm t f hr m b TILLMAN Act m d Scand 93 lix 55 S ge l treatm t f pulm ry t b SANT ANNA Bazil m d 0 3 xxvv 365 376
Th rescal t tm t f p lm y tube culos
M Dire cus W t k hi i pog bl t o SANT ANNA Bazil m d M

9.3 45 Th d g dt tm t fth t nors SI SP SO CKOT ET Ve h dl d Rus Char K g Pto-

SP SO OSOI TO THE STATE OF THE SP STATE OF THE

Pleur y-It tilgy and s gnificance LFC

Biliary pleuri y J A Phátip and J Aimard Bull et mém Soc de chr de P r 1923 h 14 7
Pleu Infections D Granam Canadian M Ass J 1923 km 863

Some suggestions as to the removal of pleural effusions O W BETREA N Orleans M & S J 1923 lxx 1 264 Criticism of the treatment of se ofbinnous pleurisy with the ide of calci m R BURNAND Bull et mem Soc

chlo ide of calci m R BURYAND Bull et mem Soc med d hop de P r 19 3 3 5 XXXX 797 Acute empyema H H DAVIS Nebr La St te M J 1923 viii 438

Empyema of the pleural cav ty G E HEUER Ann. Sug 923 lxx 711

A case of prima y interlobar empyema W L PEL derl Tuksch v Gence k 19 3 LVI 034 A ch onic tra matic empyema cavity lined by skin flap A E HERTZLER Surg Clin N Am 9 3 1 1485 The e of get tan vol t in the treatmet of empyema R C DAVIS Am J V Sc 1923 clix 743

Heart and Pericardium

A case of rupt of the h t J K Thompson Lanc t 1923 ccv 1347 Ca doorth phy acute injuses W R SMITH Ann Surg 1023 1 yr 606

Esophagus and Mediastinum

A spoon in the exophagu H B Obton J Am M As 1913 laxid 2185 the exorpt in bility of the exophagu S Kuzuya Aichi J Teper M d 0 3 1 75 S Kuzuya Aichi The Jimph e 1 sof th exophagu S Kuzuya Aichi

J Exper Med 923 1 95

Stricture of the esophagus following scarlet fever P P

The di gnosis of structures of the exophamis R C Lynch N Orleans M & S J 1923 lxxv 261 An unusual case of exophageal stenos s A Hirsch and

Affi unusual case of usoposed and the first state of the first state o

Bull et mem Soc de chir de Par 1923 l 1 1502
Paralysis of the essophagus N R E ANTONI Act
med Scand 923 l 745
A case of ep th loma of the essophagus with some unusual

A case of ep th homa of the exsophagus with some unusual features—spec men S McCullagn Ann Otol Rh of & Laryng 1 1923 xxxxx 1083

The technique f radiation therapy of esophageat ear can may T Case Am J Roentgenol 1937 x 859 [352]. D sturbances of the thymu gli of in child en C J Bloom N Ole na M & S J 1933 [3sr. 1265]. Children's upper respirat ry absects es descend g into the neck and mediaatinum. O Gloodu Vrch Peda t

the neck and mediastmum. O GLOGAU Arch Ped at 1923 xl 8 t

New cells in the pleu al exudate in sarcomata of the mediastin m D SPEROVI Re de la Asoc méd a gent

Miscellaneous

Errors in the diagnosis of fole on bodies in the air pas sages P P Vinson Am J Roentgenol 1923 x 008 (376)

A case fthoraccdermoid F J HATHAWAY Proc Roy Soc Med Lond o 3 x Clin Sect 1 The ind c t ns a d technique f r major chest u gery D W DEAL G T I ALMER a d H H COLE Illi ols M J 1023 J 320

SURGERY OF THE ABDOMEN

1023 XXXVI COS

Abdominal Wall and Peritoneum

A case of d noma of th umbil cu H Keiti R M natsschr f Geburt h u Gyn k o 3 lx 7 Cln cals fcance of d e t 1 gu l hern f the ternalf sa (B Macagor Pol ln Rome 9 3 xx

se thir 612
Ope at ons fo ing all h rma in inf cy I Deutschi Goby seat 19 3 43
Peri call h m J D Heiman J Am M Ass 9 3

laxn 876
Some co t sind e ti t hern otomy E ANDREWS
JIw St te M Soc 1923 xi1 508
The pre ention of ham t m and 1 fift ati after

hermotomy (*Alford Watscheb) Dil 9 3 vi 9 Spont neou ruptu e (f the a) in herm A Rose, o Deutsche med Wchasch Transmesocolic h rma P LOMBARD J de chir 1923 xi | S 3

Unus 1 f rms of perito tis E Weber Deutsche Zis hr f Chir 19 3 cl xx 1 3 Hydat d choliperito tis R R VILLEGAS Semana méd 1933 xxx 063

I nt nits of unkn we ng: E L Ellasov Atlantic
M J 19 3 xvii 161
The treatment facut a pourat e ge ral pentomi

The treatment facut a pourat e ge ral pentomt W S HANDLEY Med P es 19 3 n cxvi 463
I trashdom allene ps late of the inca cerated large mentum foll wig spo taneous rot tion G Kinssov Acta med. Scand 1923 its 340

Primary ac te infl mm t n of the g eat om ntumcaser po t D S Adams Boston M & S J 1923 clarate oft

C catrizing m sententis J RUTKOWSKI Presse med Pa 1923 xx 1 084 A consider tion f me e ten e) ts with report of a

A consider tion f me e ten c) ts with report of c se R. P. Bay and J. H. Wilkerson, Am. J. Surg 19 3 XXX 1 309

Gastro Intestinal Trace

The po t n of the stom ch like a d col n R O Moopy R. G Van Nuys a d W E CHAMBERLAIN J Am M As 9 3 likk 1924 [327]

The acidity of the rastric conte ts of infa ts W W MARRIOTT and L T DAVIDSON Am J Dis Child 1921

xvi 542
The factor fulluti n in gastne analys s F D Gornam
J Am M Ass 1923 lxxi 1738
[327]
Comparat e analysis of the gastne chemism u inga test
b cake st of alcoh i and using Ewald's meal R Notoa

Ch y lb 1073 11, 313

The cho ce of surg cal treatment of dysfunct on algastroptos s. P BASTANGELI Arch 11al dichir 1023 yiii 387

The chronic dyspeps as I women A J Walroy Lancet 923 cc 333
Phytobezoars W L Harr J Am. M Ass 1923 lexu

1870
Syphilis of the stomach roentgen appearance before and after treatment, L.T. LEWALD Radiology 1913 1 193

A case of pylone are one of blary right C Break is tan P lein R me 19 3 xx se pr t 1587. Medical treatment of corgen tal hypertrophic pylone steno-is J W BRICE So th M J, 1931 x i g j
C stnc a d d oden lucers F NORDMAN At h I

Chir tott exty of Observations in the quest in I Mag in trause I FI MANN Arch I kin Chir 1923 CXXXI 357

Co tnt t n t th centgen log cal tudy of g stnc ulc L. Lavari Seman med, 1013 x x 152

The Nray in the digness fulce a de ce of the st m ch L. k. Hess Ca at n Pract 1013 xl

Diag ostic value of roentgenoscopy in gastric ul er F 1 Cattiv Sem a méd 1923 xx 1 35 Frors nthein est gati n ig tri ul eby il Li h rn

thread J J CENTURY Rev de med y carug de l II han | 023 xx | 820 Observe is a upon the per e diagnoss i clinical ms generated tricule with suggest from a line

ms g ment of g treat e with august f gim n of tre tm at F Surrits Am J M S. to t [329] Pr i th rapy and the s reical treatment of ga tric ulcer B O Ist Rin Kin W h schr 1013 if

Process in the t e to me or to the Autorian Autorian for the term in the training of the train Progress in the te tm nt of pept culcer C Cresto MAN Min esota Med 1923 1 698 It fo at digastric ules coord g to the report I the Of the wilesptal W 1 Ma tenore V ha dl d R Ch k g I trograd o s (329)

Five observatic sofpe for tedge triulcer A Curtar

MIN and A Basser Bull et mem Soc. d chi de l'ar 1023 | X 1512 I if tat n i to the free pent esl c ty of a callous acce in a child i 7 years L > anity Act chrurg

Scand to 3 lvi 300 Prir ted gast cad luoden l leers Feind Chi u Orth p, to j i 516 lerf rated go tne I d od n l ul ra,

first fated ga the I d od n z to a garage fity three cases II Stricture A ch f ki Chir oza [329] The tatm nt fh rgt s 1 mach C L Cu son inn ing tore leav 547

I fty-o patt tart g from hed from the seco 1t the f urth day after g stric oper t no. 1 lieusser and R Ggfcorge Bull t siem. Soc de chir d Pr 973 xli 1376 Ga tro-d odenal urg ry i Au tn L Lanutte Arch

LERETTI Vich le med cirus y e pec il o 3 i 5 3 i 5 3. Th s rgs altreatm nt lg trædic r M Susko r Verh did Russ Ch. K. g. lettograd ro 3 i 1330 Mod fc tio 14 thoble! useingastro-intestin l ork W J Scataryav Illia M J o 3 zl 437 (2 st o-ratero t m) \ Z o K v m d i l Rosan [330]

500 t neou restitut n aft gastro-ent rost my J Ulriciis \ ch f kin Chi 93 cx 749
Compi t n d to al gloop gast o-ent st my \
Paviovsky and Coppile Bol y trab Soc d cirug d

B os A 1923 v 855
Th v 1 fpylrc clss as cur to epr phylacti
proced e for gastri a d duod sl leers L L Ritte N wy Chi A h 1923 ii 457
Res tion of a pe to ated gast od oden 1 ulcer A
MUZZIEDZR d J NZU ERGE Wien kij W h schr

D d res lts f gastri ulc r I O II Pers Verh dl 13311 JR as Chu A R Pt grad 03

A prilunculated polypo d fibro-acen ma I the stomach of ball I e type ca ung an unus al and complex syn drome period cerises finte se ep ga tric pai with shock amiting m lama (tarry tool) nd prof un i scroncary anamus, ta si on complete rel fand recovery ill an g extirpation if the tumor by gat tony clinical report with discus to R. MATAS ur (ynec & Obst 10 1

x x 11 2 3

The clini n-diagnostic significance of the disco ery I especi fly car I oma W BAUMENN Med Ali 1925 El nin [331]

I if possible w thout the small int sti H Data FLER Zentralld f chi ozg 1 1501 Co genit I octlu i n of the small intest

Chon intestinal ta i cance I cance " I W | Lave

Am. Med 1923 x 12 827 Enterocyat with report facase I E Strope ar I E. 4.

FRANKL Sug (yn c & Olnt 1913 x 11 791 Salpingo intest nal t be culou S F Branc Bol d la Soc le lot y ginec de Bu nos tires 1923 A case I harma grom of the small a testin

Roppergres. A h f path in t o23 cext 1 4 6.

I red ble intu unception in h idren sucressful resect n in two cases chylateral na t mos and one by Ma sell s oper tio H Rischmern Med J Au t ha

1913 11 613 Exte i resection fish small inte tile I San orr

An Ser 1931x 1 45
St 1est aseptic uture 1th bonel 11 Berchmann Ze tralbi I Cl r 19 3 1 1659 Ch 1 oct 10n 1 the duoden m in visceroptous

based n t by fewenty-eight cases. D V vnexhoor a IT D Davis V minis V V th. 1923 1 501 D ol nald rt cul m J Car ven P esseméd P r 0 1 27 1 084

Du In I berns -s misn mer E. A. DREWS Surg Gyn c & Obst 19 1 x vii 74 Conge tales tof the duoden in report of case O S Wator S g Cynec & Olnt 1933 x 11 785 E t mal d odenal fitule K, Corr An Surg 923

(331) ha 175 Dod 'i i I ALESSA DRIVE Re de la Asoc

med arg at 1923 xxxvi 649
Clitad Vray i g ous id od nat leer II
CRAOLL Min med Whischt 9 3 1 250 3 The darpose and for timent of 1 at 1 luice. R. R. Ivev So th. M. & S. 10 5 ixe. So 5. Palls the respect to the polyonse destruction of the local media data part of the stomath impossible to resect the Floraceus. Ze trailly I Chr.

9 5 1 658 To case I seco d ry 11 nat ulcer D Go ztrze Margor Rev d med y cirug de la li ba to 3 vom

1 1 658

Postoperati ej ju alulcer M B 18440 Rif rmamed 923 ****

23 xxi 103 The relation policy aludes the secolumn beach to the JM Rector Glasgew MJ 93 ы

The tree time at figural lear a co dry t gastroe ter tomy L URRUTIA C 6 med 0 3 1 354 I ru f W ck l diverticul m F Floristo W

I vis Which ch of 3 x 1730 Which ch of 3 x 1730 Which ch of 3 x 1730 Which child the child that in a from cicatracing mest to the certain Korm med 1 3 x 1844 A a flooredit or x ed by the perfect we gall tones Wetzeler Hadry Wich fix the Children with the control of the control of the children with the control of the children with the

13331

Report of a case of gangrenous prolapse of the mucosa f the Heograal val e and remarks on the phy logy and pathology I the val e L Reny Arch I kin Chr 1022 12170 1 6

Beogreal incompetence a clinical an lysis of 1 000 cases with a me deductions therefrom N W JONES Am J 13321

M Se 1021 dry 210

Two cases of intra abdoms 1 h rma. I R Carling and I M Joves Bint M I 1023 it 1052 Two stage operat o s : acute strangulat n of the gut

A L. HERTELER S or Clin N Am 1923 is 1477
Intest val obstruction C II Corner and B Brooks Ana Surg 1923 Ixxviii 755
Intest 1 spasm due to ascaris 1 mbric des 13321

Intest 1 spasm due to ascarts 1 mbnc des 11 a. Hessis Birt M J, 1933 | 1151

larial leulus of the excum F D Twenty S rg

Chin \ Am 1923 is 1667 Volulu f the excum II Jacobsey Acta ch rurg Sca d 10 1 l 1 181

1 McLFAY method of shorte i g the execum J Michigan State VI Soc 1923 XXII 495
Sincal t eatment of inflammatory disc se of the creum Friends Therap di Gen w 1923 I

otes in the diagnosis if acute supp ti e typhi tis II OLIVECTO A Acta med Scand 19 3 hr 344
I scul-appendictus i 1 fancy I Sáenz pe Santa

I seu 1)-appen heitis i 1 fancy Maste Med Ibers 1923 u 324 Acute append citis an lintu suscept ni if ney 1 D

H rer J Am M A 10 3 leres 2 34 Som caves of appen ! tisin children J A C nattino Cron. med 1923 1 191

Appenacitsm rt 1ty wh 1st blame? F H Howell. Pacific Loa t J Hornerop 925 xxxx 389

Observation in the ppendict question F HEINEFT Deutsche / tichr [Ch 1923 cl 1 48 Chren c and recurrent append utis I Lifk Arch f

klin Char 1923 cxxv 507 It opts the appendicit's a h m I sac and the tumors I the large intestin. B Tr exit re Deutsche

Night i Chir 1013 cl 2x1 57
Sympt mat logy and dol to land a n hro capperd ins B C Cestinay dk J M ira Radiologi

921 i 212 (a tnc and intest nal bl ed ng i chrons appen is and

rall of dease W | Frick | L D | La D ury (1 1 \ Am 1933 1 1553 A case of strangul t n of th appenu N BLATELT

Polici P me 19 3 a sez prat 500 Ca cin mannicare oul Ith appe li RIMITE tas dl d Russ, Ch | Lorg I trograd o t 13341 Appendect my with loc 1 sith T (there he

Cln Am 19 3 11 1529 Append ect my with t in great Crusta and recent Boly trab d 1 See d rue d' li enos L'm 1921 m Bi

Acase fa restedd eloper t fth tenure (left-sid cost mofthelarge tes CILXX ma Zertra'bl

Chir 1023 l, 504 sheutaneous i r ry of th 1 re tests 1 RITTER Schwitz med Webnschr 19 1 1 95

The importance of tore calculation on a the path dray and mery fiftetrars necons related of experted usus. P. Kernij ore Arch of h. a. Ch. 107 C 535

The mentgenological diagnosis if diseases of the color R D C survand C From v Kar very 9 3 i fili)

Chrock were agreed to mine! If F II is mar 4m J D: Cr 1 19 1 [335 1 415

aray examinat in of the col in by means of the banum enema L | MENTILE \ Orleans M & S J 1923 lxx 1 284

Lartial co ectomy f r megacol n R W Bolling A 13351 Surg 1923 lervin 681 Malignant diseases of the col n 1 Saciis Northwest Med 1923 XII 425

A case of d uble barreled stenosi of the lepst c flexure H Marker Zentralbl f Chi 1923 | 1665 The clinical physics of the pelic bowel C J Driver Chicago M Rec. 1923 | 1883

DETECK Chicago V Rec. 1923 1 883
D erticultis of the sigmo d II Gaudies mêm Soc de chir de P r 1923 al x 142 14% I carcerated inters gmoil I hernia W Sustal. Zen

tralf ! f Chr 1023 1 14 8 l' rifectal melan bla toma de eloping in a cut eou homorrhod A. L. HERTELER Sure Clin & Vm 1021

Lircul r amoutat for marked first and second der ee pr | p e of the rectum F C \ romans Am J Surg Pectal fit 1

an infrect sequelt a rupt ed appen dix J I MONTAGLE Am J Surg 1923 xx 1 313
A la cal study is di m th rapy in c remoma of the rectum II A KELLY and C I WARD Surg Cypec &

Obst 923 xxxvu 6 6
The r dical tre time t of career of the rectum LISCHAR Ar h f kin Chir 1923 CXXV RECEIVER AT h f kln Chir 1923 CXXV 385
Th t treest of cancer of the rect m A SHWARTZ B II t mém 'oc de chir de Par 19 3 2h 15'9 1 nd noes f a ectal d sease C J Daurck ter t J Med & Surg 9 3 Exx 1 516

π mbul at treatment of anorest I 6 tula (BOOKALE The rap Gaz 1973 3 E EEE 860

Liver Gall Bladder Pancreas and Spieen

"mympt ma of lepaticins files n y w th particular ref e et t relat n t surg ry k Lagea Befte z kln Ct f 19 3 cx 11 382
Hard tad 3 t of th 12 er open rg into the grouphagu

R Biora i G Sr tra Semana mel 1071 xxx 050 C reasco comed 1933 ix 126 The tre tment of smarl c becess of the liver Ciorota I lidn R me tors as ser prat 1655

The treatment of 1 er absces by a piration A. P. Seticas Lancet 19 3 cc 130 Sodular explau of the h r Vicentr Rev de med yenn, de la Halan on znu 66

this lan al effects of extirpation of the live Costr Presented for 1913 axed 1939. syphiltic faund ce I Livistrot Acts med Scand t iz zon

Cholecystius P I Wriber J lancet to 5 xl:1 506 On choose to with et the I W Bares in Ann a re tors le 1 608 1336]

The diagnous of chronic the cost ! I P Sometimes M resot Med 19 3 v 677 M resot sted 19 3 v 079
The trentgenological diagnosis of three c cholery t tis
F 5 Pr 121. M crota Me 19 3 1 64
The 121 al di 1200 of 121 th dder disease. H P

RITERIT M. MOIS Med 10 3 vi 6.3 Cor this 3 H I O H stream. Arch I has

1911 6 1 4 Œ Reaston I gas a nd dunderal secretion in F I stone derse (Conv Arch f L., Ch. 1 11 carra, 100

Ful to fac lead spen h les to 1] Take o An Fac d med Uni de Vint ideo 1021 v 1040 Cholel this i thro it of fees tit and cholancitis

Choir this i chief ice i lees in a thousangur

An exp rimental stufy fith Milt rly test
c mment o th phy ligy of the gill flail
sphincte ti J S Draw 1 A J M Sc . . 911 13371 cir 1 804 not gradd nog febil yt til Marnind C. McMari Nir kist M. J. 221 and C McMar

The alre it is all you comis who hall all blaide wa fra !- trm d H I D syre d T 5 CLLE 5 18 (30 C & Obst 102) \$ 31 520 133 1

The roentg n vi tled g f hr caff ct f m f v g de ! If has tops x 600 Instrum nt fr seiblro 2 t Doer mit

Presented I to exal . () A I isol ted punctu wind ith gliblait H May Deutsche Zisch I Chi gag l # 422 Id al ch I t t tm 7` 1 2 11 1 ta limir

Scad on la so Sulver u ef l'eysteet m # Super / t fil f

Chir 19 3 1 1 00 Special to t finfection fith 11 stratts perma nt internal d si ag by m ns f a chol cy toduod ost my F Blost ema a med 1913 t 1301 Chol cystect m fill w g acute rugtu f th g ti blad fer which secured t mo the g C () r ra none S rg Cl) As 923 1 1681

Closure of the lim nwth t frain a ft hectomy F C little pre fet a kt Cti hljt CINI 175 The repa of th mn nbl duct e j nt R S

The oper to treatment fill paths 1 led who es t The oper ti treatment fill path of led who of t W knamet B trakh Chi of car so The operation of the libid from ry in the Led n Clic W F Sur no or Deteche /tschr f

1339. Chi 923 lax 1 145 Ham r hagic pancreat t n a boy sta 1 0 sar

IN TOW H IT M] 19 3 1 1041

R cu rune harroorth ei nan eat ta. I V tra Sema a met 1921 ax 1981

Cyt fith pa re 4 A k Barts Cift a M Bull Cifto Sping N 1 th, 1023 is 142 Spinectomy a schill with Hantis disease D Gi z The of the of the of the or the order of the order order

t r sir rert

Mi celianeous

His ctype II rm I position Ith I I minal real tith hum on halfy I Wickers Arch I kin Ch 2 3 6 57 422 Il imperi e ipa e tebralinyecti a i o oca in etil i gnes M Karris and I C stace

Med Aln 923 i 1184 The i real n firtra be meal added 5.55
tagotage Verbanil d Rus Chi Ko g P trozzed

Firers diagnosi file urnicalabil min R.McR 1 ins II i M.J. 1971 | 430 The lift re ii l.f. gr. s. Lappend itis a.d. flections fth i e th t mach nill ry tract M Kaarst (see fust so t to

Alimial ugery R W Mc LALY J Lancet 19 3 1 1 634 I se to I in the t tment of ac to abd m nal condi-

G W CRIEF Un State M J 1925 ERE EAS I LOUSEY 'em na méd 19 3 xx 1130

'n traum to h ma f ti di ph gm-an embryolor cal i wie nt L C Richards A n Otol Rh nol &

Larrago org x zi 145 Sympt ms of congenital n n incare rated false herms of thed phagm O Wilk vy Arch f klo Chi 1913 475

I dust it gmat c herris successi ily operated upon M LLER HAGEN Arch I blin Chir 1023 CX1 12.

k trope t neal penrenal l pom PP J 1 son Doston M & S J o 3 cl xxix 907

GYNLCOLOGY

Ute v

I penmental studies in stimul ti f th g outh f the ut rus B Zonden Arch f Gyn ek gag ex 5 Peg neration f th uterine musculature p rticul ly

after tren plantat n Il hazenscres A ch f Gyns k 1923 CM 348 Som con d ratt na n the term malpos thon Baz v Datson I writte Re d cl m d Mex 923 1 45 Des u and displacement of the terus i a yo ng woman A F II RTFLER Surg Cla h Am 9 3 1

The tol gy f prolapse Graff Arch f Cyn ek 19 3 cxx 59 68
The deace s and prol pse of peasant m n Kritz

ten Arch f Gyna k, o 3 car 65 Genital prol pae in th light f constituti nal path logy Von Jascuke Ar h f Gypaek 19 3 CK 56 68

On Jascuke Ar h f Gypaek 19 3 CK 56 68

D J is inclinate n nd proj ps Flatau Arch f Plic inclusts n nd proi ps Gynack 1923 cz 5 68

Late r sults f int ra t n for g nit I prol pse L MAYER Bruzelles med to 1 1 1 6

Endocers citis. A I CATTERWOOD J M chigan St 10

If Soc 923 MR 497
Th 1 colom t I cold that I Beato Cro mid 9 1 1 199

The tr tm t fe rel al m tr tes and steribty de to it J Moterorre Re franc de gynée et d bit 973

I linic I t dy I the rr tre rhagia F NAVAL CA

A case I metrorrhagia d n g the me pause bdom nal by terectomy Virat Aza Prog d I ch M dnd 9 1 52 1 646

Esse tial and fu ction I uten e hamorrhage HERSCH V Zischr i serzil F ribid 19 3 22,072 Hematom tra in 1 it rudimentary tenne horn with simultaneous aplasia of the i ft kid ey S Mirrovowa

J Akush i Zhensk Boller P trograd 1933 xxxiv 13

Hizmatometra cervicalis 11 Meyer Ruyco Ze traibi

f Gynsek o s zl u oos

Hem trhanc metropathy H RUNGE Arch f Gynaek

1923 CXIX 207
Primary tuberculos s of the body of the uterus C A CASTARO and A J RI Soufa Semana med 1921 EEE

Hypermyotrophy of the uterus (Reuncke) W. E. DARNALL N Y k M J & Med Rec. 19 3 cm ii 737 Two rases of fibromyomata R Rix Nebraska St te

M J 1923 Viii, 447

Tuberculous infection of a utenne fibromyoma F Spirito Arch di ostet e ginec 923 xvii 483 A case of adenomy oma in a maldey loped uterus H E

A case of softeningoma in a majore loped uterus. H. E. Whithias Proc. Roy Soc. Med. Lond. 1923. Xvii. Sect. Obst. & Gymrc. I.
Uterne myomata. X ray treatment acute uter o anan thrombophlebitis. J. C. Astukana. Bol. de la Soc. de obst y ginec de B enos Aires 1923 il 572

Fibroma and radiotherapy LE JEMTEL Bull et mem Soc de chir de Par 1923 zlix 1532

Cl ndroma (cylindromatous end thelioma) of the uterus

A Bants Cynéc et obst 1023 111 5 8 A case of inversion f the uterus with squamous-cell car cinoma of the fundus H WILLIAMSON and G F ABER CROMBIE Proc Roy Soc Med Lond 1923 xvn Sect

Obst & Gynac 4 Unrecognized carcinoma UTER Mon tsschr f Ge b rish u Gynaek 1923 alus 17 [340]

The early histological diagn sis of utenne carcinoma R ADELSTEIN Med Klin 1923 XIX 1290

The early diagnosis of uterine carcinoma O GERICE Med Klin 1923 11 1293

The present status of treatment of cancer of the cervix of the uterus R C NICOLINI Semana méd 923 EXT 172

The s betitution of irrad ation f r operation the tr at me t of utenne cancer K Neuwirth Brau mueller, 1923 [340] Results of 1 radiat n treatment of cancer of the uterus L KRAUL Ze traibl f Gynaek 1923 zlvu 1573 Radium as a substitute for hysterectomy

Modell as a substitute for the foreign as a substitute for for foreign for foreign for foreign for foreign for foreign foreign

H Bowroc Radiol gy 1923 i 99 Preventive hamostasis in colpobysterect my by I gati n of the hypogastric artery M Roussigt Press med Par 19 3 1111 1005

Adnexal and Peri Uterine Conditions

A case of congen tal ab ence of the left r und ligament M Rosso Re argent de obst y ginec 19 3 vii 260
Fibroma of the bro d bgament E Pozzi Semana

med 1923 EER 995
Why does the follicle rupture? E Strassmann Arch

f Gyna k 1923 CRIN 168
The relation f the corpus luteum and m natruat o Corrz Gynéc et obst 923 viii 5 7 The pathogenesis of corp s luteum cysts E Voor

Zentralbl f Gyna k 1923 xl H 677

Intra abd minal harmorrhage from ruptured corpus

Latra abd minal harmorrhage from ruptured corpus luteum with the symptoms of acute appendicitis ODERMATT Be tr z klin Chir, 10 3 exxix 663 A case of twisted d rmoid in the left ovary in [341]

girl B LAMMERS Med Klin 1923 I 1298 Hematoge ous col nng matter in o anan cysts and the

I m ton of cryst lized acid m the mogl bin R Zeyner Ztschr f physiol, Chem 1923 CXX 242 Torsi n of a para-ovarian cyst after the menopause

LOUBAT Bull Soc dobst et d gynéc. d Par 19 3 xu

Studies in tubal insuffiction H Sellneim Zentralbl f Gynaek 1923 xlv11 1473
The ind cations for and the value of tubal patency tests

in the study of ste ility W H CARY Am J Obst & Gynec 1023 VI 773

A mple method of t sting the patency of the fallopian tubes N S HEANEY Am J Obst & Gynec 1923 Recent observations and advantages of the Rub n test

for sterility R T FERCUSON South M & S 1923 LXXXV 628 Adnesiti a d \ rays \ VITAL Aza Med Ibera 1923

VIL 465 Xanthomatous salpingitis C Daniel and A Banks Pr sse mid Par 1923 xxx1 7.3

The relation f tube-evarian cysts to nodular isthmic salpingits L Leptrer Monatschr f Geburtsh u Gynaek 1923 luv 45

External Genitalia

The treatment of pruntis vul & S WIENER Surg Gynec & Obst 10 3 xxx 11 843

Plastic perations on the female perineum PRILLES N O le ns M & S J 1923 lxxv1 287 A case of carcinoma of the fourchette L BRADY Bull Johns Hopkins Hosp B it 1923 XXXV 426 Varinal o tlet repair W C Seelye Boston M & S

o a classu 10to Vaginal aire a of diphthentic one n H FORSSYER Acta med Scand 023 lix 600 Embryonic cysts of the vagina C CORREA DA COSTA

Rev de gynec e d obst 19 3 xvii 340 Carcinoma of B rth lins gland F H Falls Am I Obst & Gynec 023 V2 673

Miscellaneous

The relation f backache to gynecology W P Graves Boston M & J S 923 clarair 57 Est mat o s of the act on of ovarian preparations M

FLORIS Wen kin Wchnschr 1923 xxxvi 8 4 P s in the p l is of wome G P La Roque N York J & Med Rec 1923 txvm 559 [341]

Gon cocc linfect as in the lower gen tal tract of femal inf at and young gi ls with a report of 100 cases C C NORRIS and H B MIKELBERG Therap Gaz 1023 18 [342]

Trui 775
Gon theral ofe ton of the female genetalia DR SURRER JI dama State M As 913 xvi 392
Th diagno s and treatment of ge ital t be culosus S The diagno s and treatment of ge ital t be culosus S The diagno s and shad D FOSTER W erzb Abha dl a d Gesamtgeb d prakt Med 021 XX I

Hehoth rapy and thermal tre tment in gynecology L M PIERRA Rev fr no de gynée et d'obst 1023 xuit

B of meal changes afte weak roentg n straduat on in certa n gynecological co d tions E KLAFTEN Zentralbl

f Gyn ek 10 3 zlvu 17 The treatment of gynecological cancer with radio-acti e substances A Doenentern Strahlentherap e 1923 zv

Some uses of radium in di cases of women G S CAMPE on Canadian M Ass J 1923 xii 872
The st tus of rad m therapy in gynecology S Rzca

SENS Y GIROL R v argent d obst y ginec. 19 3 VII Oscillometric control of aniesthesia and operation in

gynecology and obstetnes. P BALARD and G JEANNENEY Rev franc de gynée, et d obst 1923 zvu 630

Remonal næsthes alagya ology and obstetnes W R Mercer and B F Bover Surg (ynec & Obst 1915 XXX 816 Phlebotl ombos complicating pel ic surg ry J W

NAME POLE Cat I H more to a xxx 370 Thet pentoneal route f roperate a formel i tum ra W MURELER Arch f kln Ch to 1 cm

The Steinach in thod as priled to women. If Braya-miv \ 1 k M J & Med Rec. 19 3 cryin 750 Some feat es of plastic genecological surg ry F N Martine Canadi n I ract off xl u 479 The perati tre iment of i c nti ence of n e in the

1 I MANDELSTAMM 1 th noll d R ss. Chit A pe I trograd to te

OBSIL PRICS

Prespancy and Its Complications

Thee h dagnos of p gna cyby the phi nz glyco-suna test M L Pfarz sn i 3 M Bara Semana méd 1021 35 1672

Pre at leare responsibility I the obst in min & P B Bower South M & 5 923 | 24 61 Dotal car d ing th pren tal pen 1 W 1 water

D fixture is in the property of the Am J Obst & (yn 1931737 Weight prem cylissalu as r terest C H Dayrs Am J Obst, & Cynec 021 vi 5 5 [343]

The fragility I the blood c H in 1 time F A [343] Druca Re agetd btyg ec. 193 Clolesterin met bolism dun gp gn ner dth pe

pen m I steams Arhilly k gaze go, a g
Th d gnowl ettology a die ten ne i mitig of peg ancy L Mrs Re de med y cirug de la II ba a togat x 1 18

If patic i nets n in orm i pregna y a i i ti
to amas i pr gn ney Liven with \ h i (na k

1021 lan 2 3

to zeman ipigen ney investment in it make in garantee so too.

Chemical charees it his to zema ip gena y William wha peem ny i bo havat Re de gynec ed bst 19 3 x 1 406
Sete ennem d ring preg ancy t e tment by t pe ted blood t n fus ne cu e C sarov Bull Soc. d obst et d

gynéc. de I r 1923 : 317 13431 Hyperelycema an egnancy Fary Ach I (yna k 19 3 CE 87 105

19 3 Cx o 105
An unus Itutal pr gna cy II C C De x and I C
Surra Irish J M S 023 5 s z 406
The sympt ms f ruptu e f th t be in xi a term
pregna cy B Herrillo Ze tralbl i Cyna k 023 (343) xlvu 517 Ac se (pregnancy in ad ubl terus (ut ru didelphys)

I I Me pett Am I Ol t & Gynec o ; 1 600 (344) T 1 p grancy n be m to uterus with co tracted pel s del cry by cass ca section J Lans B t M

J 1913 it II 1

Ana lys: f400 c e ofe ta tri pegnancy \
R Masov dR W Stores Bost M & S J 9 3 cleans ote

I test alpren cy J C Antware Bol del Soc I test which and a set of the diest with the control of the contro gr vidarum P Sci trusc ien Arch f Cyn k g 3

Tw c ; ep gnan es assoc ted with hydram ios with ch in cal analy is fith fluid 1 C Goldse and : dG W PLC TER B II B ffalo G II p B ff 1 V k 1913 i 1 4 The fit flaydram o upon the life pecta cy of the

13441

Roentge ray appearance fa case of c e tal hydro h A Burtmotourw I am M As tors t 1879

The hart a d pregn nev W FREY Le page Th m The prognosus of he rt 1 ceases in preg ncy W FREY Zentralbi f Gyna k 1023 xl 1553

The te tment of ca d op the in 1 cgna cy and labo

174 leg a cyan leute ord ma of the lungs O Dr. Socza. Re i gyn c e i bst 933 x u 4 i
Pyelis (p egn c) N NAUX Am. I Obst &

Cynec 10 3 i 651

A case file 41 pregna cy J Iuris Ze tralbi i
Cyn ek 19 3 sl u 1738

Wister tm nt of a two months o erdu pregna co G f Proterov So th M J 923 x 950
Embryot my n h 1 g fetus d l gal medicine P
Cost Bol de la Soc d obst y g nec de Buenos lures

19 3 11 601 Myomectomy and pregns co T Lastra Bol d la Soc de last y g nec de B e os A res 9 3 n 595

I ir care e n sectu n for an betru ting my fibroma CLEMENTS At h d ostet e gr ec 923 x1 547 Colliseration of the conserver of the co

1345 Am J Obst & Gynec 10 3 1 552 [345, Sertic borti n G Wryter Zentralbi f Cyna k 1923 The p thog ests of aborts to 1 Ron isvalle Arch

dost t gnt 193 x 13 fit rabort O pr Solza.
R t t nof the pl ce ta fit rabort O pr Solza.
R d gynec d bst 19 5; 2 u 455
The p ph) ta f cnm al abortio a d'. R sout. Rev f any de gynéc t d bst 1933
d'. R sout. Rev f any de gynéc t d bst 1933

Ciminal bort no du ed by the son to n i concen t ted! I, ubpent elham t ma acute t zic n phritis d'ath Erra B Il Soc d'ost et de gynéc d

19 3 xii 567 Stat t'es n th tre tm t of leb ile aborti n Diskowsten Z neralbl f Gyn k 19 3 1 327 [345] Casa ansecti nf r n ma i both es pd el 1h 1th l rg met sta. s in the meso igm d t nn cen

DE 5000 Ned il Tielschr Ve losk n (yn ec Labor and Its Complications

Del ery heet W B THOMPSON J Am M Ass 1923 mi oti

The residual on you have been been un normal depathol gal condit n Frey Arch f Gyna k 021 CXX 81

The so-called new method of inducing premature deliv ery V Aza Siglo med 1923 lax 1101

A new p ocedure f r producing p emature deli ery L.

RECASENS Siglo med 10 3 lxx 1 13
A new method of p oducing premature delivery PA RACHE S glo méd 19 3 lxx 1157

The us of gluc se per r ct m in the first stage of labor M P Rucker V rginia M Month 1923 1 590 Non r t tion of the head during spontaneous delivery

R KELLER Bull Soc d'obst et de gynée de Par Some points on the caus s and managem nt of d fficult

labo J A KINNEAR Can dan Pract. 1923 xlviii 492 Dystocia due to rigidity of the cervis after radi in ther apy for cancer METZGER and LEGUEU Bull S c d obs et d gynéc de P [345] 1023 XII 188

Distocia due t cicatricial t nosis of the cervix follow g the intr cers cal applicati n of radium H VIGNES a d L CORNIL Bull Soc d bst et de gynée de Pa 1933 X 190

13 x 190 1 cisi ns of the uterine cervix during labor S E Ber MANN S maa méd 923 txx 809

The causation of intracranial hamorrhages in the new born H EURENPEST Am J Dis Child 1923 EX 7 D livery of the shoulders in its relation t

C J LICKHAM Boston M & S J 9 3 laceratio dra oo L n cal lacerations with resulting ect op n and e osi n

per nt na dtratm nt H H Cumuthos I M chiga

For it is a training to the state M Sec. 19 3 xm 490

The maternal a d I tai o seequ nees of delayed labor

O ALMANDIA Braail med 19 3 xmxvu 330 341

Meddl some obstetnes J R McCorp N York M J

Well Re: 0 3 cru 1542

Th u e and th abu e of putut ry estract in obstetnes

Debug Liberd M I vaz. 183

B H BUXTON Rhode Island M J 19 3 1 183

Th method effect and dangers of the administration in pitu tinn a obstetnes I Menner Schweiz med Wednestr 9 931 lu 549
H) droceph lus in breech p esentati n withdrawal fi
the fl d by sp nal punctu
PLACERY Bull Soc d ob t

et de gynèc de Par 9 3 x11 554
P rtuntion with tripl ts t se en months and three
d ff re t p esentat on Forger Uriov Bull S c d b t

et de gynéc de Pr 9 3 xu 547 T case of ut r place tal hæm rhage M Rivière Bob Soc. d bst et de gynéc de Par 19 3 xu 543 Il centa præv FERLING Braz I med 1923 xxx u 3 rors 1 d gnosi and tre tment

Placenta przwi in f Placenta pravi in f ccessiv pregnan es W GILLIATT I roc R y Soc Med Lo d 9 3 Sect Ob t & Gynace 2

The textm at of placenta p æ 12 G A PLUMMER J Io a State M Soc. 9 3 xiu 499
The r lati ship f uteropla e tal poplexy to ablat

placentae R. W HOLMES Am J Ob t & Gynec VL 517 Abrupt: pl ce tæ H E BERNADAS N O leans

J 923 lxxvi 33 [346] The ruptur of the a ticulation of the pel s and ta elati n to the mechan m f d livery R KELLER Bull Soc d bt t degynéc de Par 923 M 337 [3 R ptu e of th ymphys 3 pub 3 d n g l bo Tugus Re méd del Susse Rom 9 3 xlu 194

Spont neous rupture of the lawer ut me s gm nt D S Pracry Bnt M J 1933 1 205
C mplt central a ut in f the portuo g l during labo
A. S Pettersson Mo teschr f G b rish u

l during [348]

Gyn ek 9 3 lem 315

Traumatic ruptu e of an ovarian cyst dun g labor F R PASMAN Bol de la Soc de obst y ginec de Bu nos

Aires 1923 it 564
D cussion of methods of procedure in retention of mem branes Saint Blaise DE METZGER and LE LORIER

B Il Soc dobst. et de gynéc de Par 1923 xii 272 [348]
The treatment of perfo at n of the uterus E Schwab Zentralbl f Gynaek 1923 xlv11 1451 [348]

Indication and a gety of essatean section G P
SHIPLER A braska State M J 1923 viii 428
A Porro essatean sect n E T Newson South M J

1923 XV1 961 The tran pentoneal cervical casarean section L E PHANEUF Surg Gynec & Obst 1923 xxxv1 765

Casa can section J H. BLOOMFIELD J Iowa State M Soc 1923 x111 5 4

The abdominal cresar an operation F MAGALHÃES

Rev de gynec e d obst 1923 xvn 3 9 381 The cicatrix of the exesare n sca A Barbera Arch di o tet e ginec 1923 VII 529

The present status of exsarean sect n in M saachu tts

R L DENORMANDIE Boston M & S J 1923 clauxix

Puerperium and Its Complications

Blood p essu e h nges follo vng del ery Schwarz Am J Obst & Gynec 1923 v1 656 The cerebro pinal fluid in the puerperium PEREZ G PUCHULU and A J MORENO Semana med

1923 XXX 958
Normal and pathological physiology of the puerpe al

uterus O I Rodriguez Rev med del Uruguay 19 3 Penn al plastics at the time of delivery E ArchoLson

Rev argent de obst y ginec 1923 vi 2 0
P stpartum u zemic psychosis M L Pérez and J E Bazan Bol de la Soc de abst y ginec de Bueno li es

1923 11 567 Seve e p rp al eclamps with 40 gram of albumin tre ted by la ge do es of m rphine e ly durest cure I M ROUVIER Bull Soc d'obst et de gynée de Par

19 3 Mi, 2 7 Tachycardia nd b adyca dia in th puerperium 13491 FABRICIO DE BARROS Rev de gyn c e d obst 1923 XVI The puerperal mo b dity in cases of t ichom nas c lpit s

unt eat d and t eated before delt ery O GRAGERT Mo tsschr f G burtsh u Gyna k 1923 Itt 37 [349] The infl ence of trich m nas colpt's pon p erperal m bid ty W Liss Mon ts ch f Geburtsh u Gyn ek 023 Īxu [349] Puerpe al septicæmi s O DE Souza Brazil méd 1023

EXECUTE 351

Rem ks on the ti logy of p erperal infections J
VORON P DURAND and P SEDALLIAN Bull Soc dobst

et de gynéc de Par 923 xii 307 D finitio c ntagi u ess prognosis a d t eatment of pu rpe al ini ct n J B GONZÁLEZ Semana méd 1923

XXX 1385 The se of continuous drip rrigati n in puerperal fe er N ELLERBROEK Deutsche med Wohnschr 1923 zlva

The treatme t of puerperal seps a by quan empetions S G LUKER Proc Roy Soc Med Lond 1923 xva Sect. Obst a Gymac 9
Sect. Obst a Gymac 9

Sect. 105x a Dynar. 9

The sure cal t c tment of pu speral infects n H B

SAFFORD N York M J & Med Rec 19 3 CXVIII 516
[350] Operative tre timent of pu rperal gas bacillus infect on H BRUETT Zentralbl f Gynaek, 1923 zhvn 13 7

The treatment of puerperal tetan s with intracranial serum injections K Pritscii Zentralbl f Gyna k 10 1 zl\ 1445 The treatn ent of puerperal breast diseases with light

N FEMESVARY Ze traibl f Gynaek 1023 zlvu 1514

Newborn

The physi I go al loss of weight in the n wborn and it cont of T A RIESEVEELD Am J Obst & Gynec 1923

728 The l ngth 1th umb heal cord based on 1 000 cases of the obstetrical clinic of Mars illes Lorior Bull Soc d obst et degynée de Par 19 3 xil 256 [350] Spinal a d cranial i junes of the baby in bre h de I er es a clinical a d path logical study of thirty-e ght cases R. N Pierson S rg Gynec & Obst 1923 x

The postmatur child C D O KEEVE Am I Obst & Gyn c 1923 VI 588 [350] Hamorth g c di ease f the newborn F C RODDA

J Iowa State M Soc 923 xm 5 1 Thee cases of fet I malf rm tin P Scur or Arch f

Gyn ek 19 3 cxix 366

Congenital let rus A. Mayer Arch f Gyna k. 1021 CXX 287

Staphyl ma f rmat on in the newborn A. Horney BIERLER Wien med Wchnschr 923 Ixon, 1257

Miscellaneous

The teaching of obst tries and gyn cology W B Hawbey Am J Obst & Gyn c. 10 3 vt 583 Th trend of mod m obstetrics What is the danger?

II w can it be changed? Il M ANSPACE. Am. I Obst. & Gynec. 1913 vi 566

The obst trical causes and pre e ti n f stillburth and ea ly infant mortality W G CROSHE Canadian M

Ass] 1913 XIII 877 Changes of pressure insid the fetal crame ert bral canty B CROTHERS Surg Gynec. & Obst. 1923 xxvu

The rel tion between the pl ce ta and the secretion of milk. O FRANKI Am. J Obst & Gynec. 1923 vi 300

The feeding of pl cental extract to mothers its eff ct on b east fed infants S F ABBAMS Am. J Obst & Gynec 1021 Vi 450

GENITO-URINARY SURGERY

Ad enal kidney and Urete

The effect of ext roation f the adre al medulla J T The effect of extrapation i the solid at medium j Lewis Re d la Asoc med arge t 10 3 xx 150r.
The cti logy and path genesis of neph optons C nz San Tin Seman med. 032 xxx 8 6
Ectop of the huln y th i mbarregio G Baccio P lehn R me 1923 xx x z chi 605

Horseshoe kid by with strate all pel is a coess! I him phrectomy L Kann Kent cky M J 923 xxi

Nephrot esis for recu r nt bilateral pyel lithiasis in horseshoe kidn y K Linard J Am M Ass 19 3 IXXX 2 77

R nal neury produce d n r bb ts by diets containing m t L II Newsurch and S CLAR son Arch Int Med 9.3 xxxii 850
The niture of the nd cri es in the work of the kid
ney W L Brown Poc. R y Soc M d Lo d 2023

Sect Ot 1 1 Fun tional kidn yd gn is with respect to bodily reac t on E REEN'S d'L GUENZBURG El n Wehnschr oze (353)

The urea conc trati n factor in the estimat of enal efficiency I M RABINOWITCH Arch I t Med 1923 Renal fu ction I te t as an aid to surgery E ROEDE

Lius Berlin Spn jer 1913 Rupt e f the kidn y L ARATA d J A BLAKSLEY Re d 1 Asoc med a g nt 1923 xxxvi 585 Dietla ch i C De Sanchis S ma a med 1923 xx

1408 Colmephritis A BARTS Arch. f klin Chir 923 CEX 11, 438 CER II. 4300
The heart is hype tensu and 1 ephritis P D White
B sto M & S J 9 3 clerens 1015
The p goo tic val of a zema in n phritis G E.
BROWN a d G M ROTH J Am M As 1923 lexen

1948. The surgery of r al t be cul sis H KUEBINELL Klin Webasch a t n o85

Prelitis and the FD E M Love So th M & S 1933 Ixxxv 620

Pyel tis of pregnancy II L. KRETSCHMER J Am M Ass. 1923 laxxi 585 Prel tis of Degnancy F H FALLS J Am. M As 19 3 lerxi 1500 [333]
The treatm at f pyelita by ureteral cathet reation and in tillation of th kidn y pelvis J C. Herst N 1 kM 13531

J & Med Rec 1923 exvin, 533
The t exten nt of pychias W HAUPT Mon tesche f Geburtsh u Gynaek 1923 laf 139

Combined pyelotomy nephrotomy A. G Casumio Re d med y irug de la Haban 923 xxvii 700

Obs reations in 175 cases f py l phritis. W Strating S rg Gynec & Obst 1923 xxxvii 75

A case f py ephrosis from reteral occlusion in a b A case f py ephrosis from reteral occlusio in a b p reste kidney D KALLMANN Arch f klin Chir 1923 CERVII, 453

Carbuncle f the kidn y W Honn Ztschr f urol Chı The et logy of enal calcul R H VANDENBURG

Uol & C tan Re ol & C tan Re 923 EXVI 759 Renal and u et ral calculus. L. T ASHCRAFT Homorop R cord r 1923 xxxviii 529 Operativ indi ati na i r no-u et al lithiasis. F

Operative indicate as i r no-u et al liti Miraven Med Iber 1923 vii 393 4 7 441 Calculi in the kidn y and uret diagnoss and treat me t J E Bogas Surg Clin N am. 1923 iii 685 The surgical treatme t of re al lithiasis A G CASA

RINGO Rev de med y cirug d la Habana 10 3 RI 10 Polycystic dege eration of the kidneys R. Rossi and

L. F Creza Rooms ver Rev de la Asoc méd argent

L. F. LEZA RODE! VEZ. REV. de la Asoc. med segent 923 xxxx1 p55 Semana méd. 93 xxx 14 Solitary cysts of th. indn. y K. Nicolaysen Acta-kurug Scand 1923 | 185; Es ly papilloma of the had ey pelvis N. F. Oxxerela Surg. Clin. Nam. 19 3 m. 164; Hippern phroma f the had ey associated with repeated attacks of hematurus and metastase in the boors J. T.

RYAN Canadian M Ass J to 3 mil 91

Ade osarcoma of the right kidney in a child of 3 years I SALLERAS Semana med 1923 XXX 1288 A case of bilate al renal hæmor hage A STRACHSTEIN I Am M As 1023 lxxxi 2 13

A ordance of source of air in the roe tgen d agnosis of ureteral calculi H Homiwee Ztschr f Urol 1923 zvii

U ete al obstruction W S Emrich Urol & C ta Rev 1923 XX 71 757 Und teral preteral injuries L. HERMAN Surg Gynec

& Obst 1923 xxxv11 756 Bulha mass of the wreter A B IBRAHIM Lancet 1923 CCV 1184 Transplantat on of the u eter into the ectum A G SMITTEN Verhandl d Russ Chir Lo g Pet ograd

Bladder Ureth a and Penis

Kelly cystoscopy in the m le J H NEFF J Am M As 19 3 lxxx1 2185 S ct'n cathet rizat on of the bladder G PERTHES

Zent albl f Chir 1923 1 612 Sponta eous pe foration of the bl dde A ASTRALDI

de la As c méd a gent 1923 xxs 57 Hypoplasia of the bladder F Celesia Bol y tr b del Soc de cirug de B no Aires 1923 vii 832 Retention of urine due to co genital hypertrophy of the verumontanum H G BLOBEE and M WOLLSTEIN J

Ut 1 1923 t 1 1923 477 Cystatis PS Pelouze Atl tac M J 1923 v 19 Nephr st my in the t atm nt of painful cystitis A

P MARIN Esp n med 19 3 xiv 4
Pa affin foreign body in the bl dde with calculous f mation N F OCEERBLAD Surg Cl N Am 93 m Cystmuna ad cystm c leuli H C FLOOD Atlant c

M_J 1923 EEV11 14 The res lts w th modern radioth apy of bl dder tum s

C GOOSMANN Cincinnati J M 93 The tr atme to im high nit i mors of the bl dde with mesoth num Leguer Marsan and Flavprin Sglo

méd 19 3 kx 49 Non-specific urethrits W A REED N Olan M & S J 19 3 lxxvi 278
I nizatio in u thintis D Courtabe Arch d mal d et d organes génitaux unnaires 1923 1 5 Phl gmo ous penurethrit | SALLERAS Re

Asoc med a gent 19 3 xxx 1 58
Urethral stricture G MacGowan J Am M Ass 19 3 Lexxu 831

Ope ative t eatme t of strictur of the ethra by the to mat on of a can lized u ethr in cicatricial tissue A W WISCHNEWSKI Ve handl d R ss Chir Ko g P trop ad 1973 (354)

The treatment of ur th al strictur by exc sion G MacGowan J Urol 9 3 435
An wur th 1 yringe N F OCKERBLAD J Mis oun State M Ass 19 3 XX 4 9

The sea dabuse of local urethral anasthetics A Ran The sea dabuse of local uretural anassisce in the American State of the State of th

Genital Organs

The geographical distrib ti of prostatic hypert ophy E Pristra U of & Cut n R v 1923 zzvn 737

Prostatic hypertrophy M JACOBY Zts hr f urol Chir Chronic prostatitis and I p s erythemat sus E T BURKE Lancet 19 3 ccv 1187

Chronic retention of prostatic origin Leguev Med Press 1923 ns cx 1 506 S coma of the pr state in a ch ld of 6 years B MARA INT Rev de la Asoc méd gent 1923 XXVI 363

INT REV de la Asso med gent 1923 XVI 303
A study of anæsthesia np ostatectomy J D Barnex
and W M Surdden J Urol 1923 49t
Prostatectomy unde local anæsthesia B Lewis and
E Hartley J Ur I 1923 X 47t
Notes on s p apuble pro tatectomy b sed on n, al

ys of oo consecuts e c ses N P RATIBUY J U ol T ansoubic remo al of the p ostat fo carcinoma G

WALLER Ann Surg 1023 | 1 111 795
Prostatectomy on a dabet c G ZORRAQUIN d L F AGUIRRE Bol y trab de la Soc de cirug de Bue os Aires

19 3 \ 835
The contr l of hæmorrhage f llow ng pro tatectomy H L Foss Ann Sug 9 3 lxxviii 802

Report of a case f torsion of the permat cotd F I PARMENTER and D COUNTERMAN Hosp Buffalo N York 1923 1 1 7 Bull Buff lo Gen

Inve sion of the tunica vaginal's O Ivanissevich Semana med 1923 xxx 11 0
Acute deferentit's and funiculity A O Willensky and

S S SAMUELS Ann Sug 923 l x 1 785

Division of the v st dere sin postatectomy A C Morson Brt M J 19 3 1 103 The treatment of tub cul sorchiepid dynatis in the adult J Sénèque Pre eméd Pa 1923 xxx1 1049 Résumé of the re ults f esea chon the functin f the testicl s a d th ir tran plantation M THOREK Paris char 93 3 1 I guinal ctop a of the testis D DEL VALLE Semana

med 9 3 xxx 16
Inguinal ectopia of the test's Rivarota Tauben SCHLAG and DEL VALLE Bly trab d la Soc d crug de Bue os Aire 19 3 vi 749
I gui al ectop a of the test cle R FINOCRIETTO Bol

y trab de la Soc de cirug de B en a Air a 1923 ii 82

The sults f op at n for crypto chd m R Pa scuren Zentr ibl f Chur 9 3 l 1440
Cryptorchid m in nim is nd ma F Hobbay
Pr c R y Soc M d Lond 923 1 S ct Compa Med 3 Orchits de t bacillus typho u af ct on a case rep rt G A Dunnyn J La cet 93 1 624
Mal gna t tumo s f the te tele in hild n A 1

KUTZMANN and T E GIBSON Ann S g 1923 lxx

Further expenses as in gla d tr spla t ton H L Howr N Y k State J M 19 3 xxii 488 Am J Chn Med 923 XXX 862

Miscelfaneous

A new type be reation and pe at g cysto u the scop J F McCarray J U ol 19 3 x 519 A new cysto-u eth oscope fo examin g a d ope ating o any p t of the urmary tract by direct telescope or in dir ct periscope methods G S Gordon J Urol 19 3 S S Ur logy in w men W E STEVENS J Am M As

1933 Irxin 1917
The guificance of the aly u logical l so s W T
CAY Virginia M Mo th 1923 1 6 6

grad 1923

1 case of chyluria P PANTALEONE Policie Pome 923 xxx sez frat 1622 Harmaturia I L. Surrit Internat J Med & Surg 1923 xxx : 523
Usey to neoplasms case report with literary survey
C W japanasov Internat J Med & S rg 9 3 xx i 510 The tre tment I d tu han es of u mat on with mag nesium sulph te J B Worrasci Ewsky \ wy Ch

M reurochrome 220 soluble W Vox Lac vs and B H Hages J Am M Vas 1923 laxy 194 A conv n'ent m thod I d t mini g the preschal phonephthal; o tput in the u ne V F Rom seed J Lab & Cli W 1 9 3 iz 256

Pr phyl xi ag inst gon rriors a dayph'l F Herry & & Cutin R v 1921 xxvii 44 Gon referes and its complications treatment by dather my M Macking Sema a med 1023 xxx. 1 to Chil ef ceils in the tr tment if northers I Ter

SURGERY OF THE BONES JOINTS MUSCLES IENDONS

(355)

Conditions of th Bones Joints Muscl s Tendons Etc

The infl nce if ctional mechanical i man! the gro th and I ngth of the bones W VILLER W ch n med Wehnschr 1923 las 1225 Seco dary h pertrophic osteo-arthropathy 1 hos of the h r W W DEADERICK. South W 1 0 1 x 1

Y Acute 1 k ts 1 l te ch ldhood and 1 less ce F 1
FVA. S. Britt M J 023 I 1212
Some cases I lymphogenic m ta tatle ost 1 W CEPROT Acts hours can! 10 1 1 1 357

Inmary multiplicity of bone t m rs. C. Mosceste
Deutsche med Wernsch. 1923 xlx 1237
G. nt-cell tumo. F. P. Herrer. J. Am. M. Ax. 0 s

13361 laxxi 1170 Investigations on joi ! Il Is moo Arch f path In t 1923 ccal 424
A case of syph bit og orthæ 1h dr eth osi F Lópiz
McLiedes M d Ibera 1923 1 3

Second gre t type of tho carthritis L. W Lav Im VI Ass 19 3 lxxxi 176 [356 Further been I me on 1th tis and the mat d co 1

tions R PEMBERTON Am J VI Sc 923 1 2 833
Gastro-ntest I foci of infection 1 hronic del rm ng arthrits a radiological study I a series of ases L J Carrent J R d I, 923 i 4 6 Chronic ve tebral arthritis O F ADDRM Sem na

med 03 xxx 415 The rate nal tre tm nt I g n rrhocal pseu is th um tism & TRICUEROS Arch b aul d med 973 Thee cases of myos tis W H Ochtvir Froc R) Soc M d Lond o 3 x 11 Sect. Orthop 6
Rege er tion f tendon within tru t ndon she th

H HUNCK Arch I his Chr o J ex u 137
Roentgen changes in o g n tal paralysas of the 1 Her
F FLEESCHER Fo tschr a 1 G b d Koentgenat hien 013 XX i, 12 R laxatio f the hold of ll wing be y lnj rs

HANNO D I Bo e & Joi t S g 923 v 712 1356 A case of cyst of hum rus with I ct e 11 A T FARBANE P of Ray Soc Med Lo d. 19 3 av Sect Orthop 14 Runt r of the breps A. F La prear Bol y tr b d

la Soc d carug d Bu nos a es 19 t 1845 Ara em I guant tum r f ther daus H Q Gaz upp Boston M & 5 J 1913 classi 9 9 Co gental syndactytia R FLNOCRIETTO Sema

Nultiple er physical derangeme is a the hand hith r to un ecognized localization of esteenchondrop thy i milis F FLEISCHNER Fortschr a d Geb d Roe tgenstrahle 9 3 EXE: 206

The drag on I ducases of the fige por ta. U Ax to it dang de indeaers dine, ar poi es est. Alin Wehnscht 1993 i 210

11 fat e ter sin it of the fleur m seles of the hill McLer transforten, sign 10 i u. 66. [336]. The uli ut e sin dist fit hand are proported fut ter ses fit bereul us to syn its. V B had are ter ses fit bereul us to syn its. V B had are. re Cyner & Olnt gry xxen 635 I-of teri mal ria (the os na foular carri F hart.

i rischr a d teb d koenigen trahl n 19 3 xxvl 154 I per fix disease of the semilu a 1 a Deutsch med Wehnsche 1021 al 1255 Jiku g I th tend n I the lo g ext more or the firs-

amount ame I the ant W Law Zeotrald L h in i l'1475 Un caleba el tostoses J.F. Stoty Ilinois W.J.

031 41 Spinal m t tasis f hypernepl roma. T W Brsch

The pact I am ficance I postple ritic scolors in hithe xi J Ray Arch f Lind th ik togt land tot On som ecognized ympt ms f certain mn flectir f th riebral column L. P. Cyrick I

fretw 1th retoral rough ms t certain m fretw 1th retoral rollum h. h. f. Cyrix. I ternat J. Med. & 5 rg. 19 tx xxxxx, 50?

D. groots 11 tn f 7 tx disease in the adult C. CLAYELIN Re de h. l r 1933 zl. 7d.

Tit des se in ad ced tare C. Lacos Card.

sem a med 923 x 088
C use att tre time t of t be culous of the ertebra.

C nice and tree time to to be customed on the ST Francis D odder in 9, 1, 1349. Madgin in sa niceo pread chi off ma R Andi R d Neural Sand 9, 21 1, 134. Natral to that, U D C Tilk ng Cynec & Obst. Natral to that, U D C Tilk ng Cynec & Obst.

on asc destrut t nth whom of d biful tlgy A Ob a

Sert eo tas am th if hil I Tr arc

A tam d board off | 44 Zentrallil f Chi 665 So lled I thes disease I W CARRUTHERS So th

Obe that I then has M REHDEIN F F ch d (b d Roentg trab) N A Boxp J

Ost och lit 1 f rmans ; outh C n M \ 93 South C a M 1 0 3 600 A ras f co ge it i lect f th f m th postnatal

A tas 100 gent included in im unique d 1 pm m 1 (1) bon the coma v I risch C b d Rot ignt hin 9/3 xx 58 G tell sar ma ith imu N (Ture

TRW usi An 5 rg 911 ; \$46 Les n fth m se fth kn (nochnical from a dt tm t L T verster Hall t mem. Soc d chi d Pa 93 lix 484

Some disablt es of the knee | int A R Colvin Su g [357]

Cim V Am. 19 3 m 1327 [357] Presentat n of a case of tuberculo is of the k ee one ye rafter e cision of the joint CB Francisco Surg Clin N Am 1923 i 16 5 Presentati n of a case of bony ankylosis (from neisserian

s fection) of the knee s int after e cision illustrating com

plete firm union 1 three m ths C B FRANCISCO Surg Cl N Am 1923 11 16 9 Reduct on of the crossed two 10 nts muscles f the leb to e joint in scles in spastic cond tion N Silyver SKIÖLD Acta chiru g Scand 1023 1 1 315

A case of deformity of the spine of the tha R C PLEASE OF GENORALY OF the spine of the that R C

A seco d case f diaphyseal per neotibial subst tut n P Fight Chir d gant di movimento 923 vili 2 7 Sarcoma f the t bia report of a case J VIDAURRETA

APARICIO Clin yl b 1933 ii 32

The post in of the forefoot in fi t foot club foot and hollow foot BOEHLER Ztschr f orthop chi q 3 vli

T real contraction in state pees a lgus d planov lgus Homann Zischr f orthop Chir 1923 ali 2 6 Delo mities f the os cale s T H Openshaw Brit

T 1923 11 1214 S ppu at e osteomyelitis f the calcaneum G Hao MADA B azil méd 1923 XXXX 302

Surgery of the Bones Joints Muscles Tendons Etc

Some observati ns n bone s gery R E B BLEDSOE Te s Stat J M 1923 x1x 458 Resea ch on bone g afts fixed in al h land the m chan ism of esteogen sis L CHRISTOPHE A ch [co-belges d chir 1923 xxv1 3 Co tubuti n to the d seu on on rthr plasty St W 1 DE C WHEELER Med Press 19 3 ns c vi 3 9

Arth oplasty H B CESSNER N Orl n M & S J [360] 10 1 kgv1 24 irthroplaty T D Di ason So th M J 9 3 X 1

A case of m Itiple r tio s for ume on nkvl L. LEMI Bol y tr b de la Soc de cirug de Bue os 1 e 19 3 VI 830

Free tansplantat n f half point to stor m tlty herser Ve ha dt d R ss Chir I og ff G sell ch

Pelograd 19 3
A case I te don tan plantato B W. Howell
Proc R y Soc Med Lo 1 9 3 1 Set O th p
Increase I mobility I than lid aft arthod 1 in APPIS. Ze t alb! f Chir 19 3 l 433
Resect: [the lbow P I EPET Bull t mem Soc

d Ch de Par 9 3 xl 539
The tetm nt of d blt f the h ! If II M

Lyle \n S rg 923 | 111 816

Don plint for corset L ko zes A h f rthop u Unfall Chi , 19 3 mi 6
Scolos its pre nt ns dt atm t S Kiffyh RG

Sculos asper at new terms to follow the Ped to 193 xl 79

Lomm mutkes; the tree in t follows its

J.E. STEWART J.M. SOURT SCT. M. 193 x 45

J.E. STLWART J.M. sours St. t.M. 193 t. 2. 4.5
The ungualter im f find the paralysis. L. Noctre
RES CORON'S P. g. del. 1 M. d. i. 9.3 x. 1.51
A.D. w. type of the ex. at i. 8 a.D. i. britis. 1 J.
FERML Proc. R. 5 oc. Med. L. o. d. 923 x. Sect.
Orthod. L. Proc. R. 5 oc. Med. L. o. d. 923 x. Sect. Orth p

The typical roentgen ray picture f osteochondritis de formans cover ju miles taken with the hip flexed and abducted W MUELLER Fortschr a d Geb d Roentg n 13601 strahlen 1923 xxx 335 [360] Amoutations with special reference to the sleeve

amoutate n of the thigh in seve e injury and disease. Sir W I DE C WHEELER Practitio er 923 CM 300 [360] The Leatment of cova vara A SCHANZ Mue chen

med Wchnschr 1925 lex 1247

I ternal 1 junes of the knee 30 nt and their diagnosis
F Brecher Schweiz med Wchnschr 1923 lin 9 1 The treatment of se e e knee joint suppuration by d p late al 1 cisions and h rizo tal resection of the posterior ondyle of the femur according to Laewen's technique L BACHLEHNER Ze tralbl f Chr 923 1 1471

Cur unear ste t my of the tibia in ge u valgum and genu arum G PERTHES Z atralbl f Chir 1923 I Ttltbotars 1 e ection f

h te tumor of the ankl C LENDRMANT Bull t mem So de chir de Par 1023 zlı 1535

A ca e f infa tile p ally s with calcaneocavu deform its howing the esuit of Whitman operation ten years afte operati E L EVANS Ir c R y Sor Lond 93 v Sect Orth p 5 The Progoff amp t tion and its po thes Verth Ze tribl | Chir 923 | 600 E L LVANS Irc Ry Soc Med

T d n fi at on f foot-drop B W Howell Pou

Roy Soc Med Lond 1023 XV Sect O then IT The treatment of cl b foot part cul ly t ans erse wedg h ped ostrotomy of the cale cum seve ead recurrent lub foot a d d form d flat foot G Hornan Muen h n m d Wchnschr oza lax 17

The t eatm at f co ge tal talipes equip are Duny B it M J 1923 ii 16

Hamm t and its per tile tre tm t seco d g to Go ht L kretz \chi ch f thop u Unf || Chi 923 XI 450

Fractures and Dislocations

I I nes to peripheral nerves sociat d 4th fr ct res F D Dickso and R L Divetey Surg Cin \ Am Compound fact es of long bo es H E CONWELL

Am M A 93 l vai 164 [361] V l ntary d location of the shild r nd snapping should F REISCHAUER Arch f orthop u Unfall Ch1 93 XXI 45

Osteosynthe 51 certain factures of the scapula C JENORMANT Bill t mem Soc de chi de Par 1923

A ca e i ecurre t dislocat n i the inne e i of the right cl ncl P M HEATH Poc R y Soc Med Lo d

19 3 x Sect O thop, 1
Tran erse (pracondyl) fractu e I the lo e e d of the hum rus I B Rotu Br t M J 19 3 u 1215 Report I case of fr ct e of the elbow f orn th owl g bill CM HAZEN VIET na M M th 1913 I 6 8
Fra tu es about th bow C S VENABLE T State J M tate J M 923 x 452 Compou df et e fthe bo es of th for arm th gas

built's nie tion 5 a compil at m H J Mckenia Surg Chin Nm. 023 1 1607 I ornard luxat n f th h d of the rad u with fractu

ith ula nd repture of the mot r branch of the radial

the L MOCCRET Bull to the rest of the right space of the Lord of the right fract of the dislocat in f the lower third of the right fract of the Mocco how Soc Med Lond 923 rad и Sect Orthop 10

o t ope operatio SAVARIAUD Bull t mem Soc. d chir d Par 1923 zlix 1396 The transcalcaneal route in th open treatme t fee

tain fractu es of th ankle ALCLAVE Bull et mem Soc de chir de P 19 3 alix 1540

The prognosis nd t eatment of fractures f the ler and nd results in 100 patients A P C Asustrust and E T CROSSAN Arch Surg 1923 vu, 60 [361] Th mod in treatme t I factures L F STEWART

In mod in treatment of the Manuel M. J. 1923 xxvi 149
The teatm nt and res lt 1 fractures J M Doop
J Io St t M Soc 1923 xin 506
Rec nt ha ges in fract e treatm nt M Sinchar Brit M J 1931 97 The train toffatues by the pedic m thods S.

I BOORSTFIN and I J LANDSI AN Arch Sug 9 3 TE Osteosynthe s f J va a P L Minizzi Re med del **j**31

R van 93 The eff ct 1 tame os o the healing of fractures I Securetto A h stal d ch 1023 VI 45

O th pedics in General C splastics M Bastos Ansagt Cln y l b 1913

rthoped c s rgery If

1 47 C epla ti amputat on Boscu Ara a P sse med. Par 19 3 xxx 1 37 Ci matizat I mputat n stumps Bosch Arive ind Trerier Bull et mem Soc d chi de Par 93 dix 1465 Some expen ne th th mo abl artificial h d-th Saue bru h arm E PLATOU Acta chirurg Scand. 021 17 33 Orthoped'c c fwrwuds in England Borny trch f orth p u U f ll Ch 923 xx 37 Pn ple I th ped rgery t thook of funct al Pri pie i th ped rgery i took or orth ped cs P H curb J a Iisch 923 New pe ti poc d cs rthoped c s: iprizy Prog d is ! M drid 0 3 x 43

The tree in t i u gic it be cul st I k Stishar Y
t k h pog blast 19 3 i 3

AND LYMPH SYSTEMS

t t k ft pog

Ca rn -orb talth mbophl bt aft upp rati lus Ca m officiatio moophilot ait upp ratified by evidence S NN Pints per Teutremes and tap J de med d B d ux 9 3 c 10 3 The synd ome I th pot old A Massov P ess med P 9 1 x 136 [363] A case I at n 0 an n m f the eck A W foo o Lact 93 c Fmbol sm of th bela 12 85 Fmbol sm of the belana try Paces a d J M largo P d t p n ursing infant 5 7 h ld re Clin N Am 0 3 Dilat to of the a rt mone t stim epinos
hidd Da 93 xx 6
hidd Da 93 xx 6
R pt re fan so t nm t th supen r e a
a. W N Asm son J Am M 4
9 3 f xx 87

The stimulation of the contract o rone t stual ephritis J H Sit pov Brit J satd wth Obstructi of the median of the th b-

Bilt wound f the popit larte y and a qual rupl Ig tion r It after te month I Lou und R BURE A IC LENORMANT Bull et mem Soc de ch de

I r 19 3 xl 1456 S rg cal te s s of th Jemoral artery in the t e tment of ordema of the les secondary to phl bit G Piers

A p tient with thrombo-ange is obliterans. If B

Weiss Cinc nati J M 10 3 1 406 A c e of bilater I thrombo a gest bl tera s M J Sro z \ 1 k W J & Med Rec 19 3 c 11 749 Vanc ex us a dulcers in perable r m rks u the anatomy r D Typus S g Cli 1 m 9 3 1

Vr. ith ni witho tulcer of the leg the ambulatory teatment 1 (Schilkmeder III is M J 9 3 xh

The tech peof traen using the fe peublim ton arces I the air yn 1 me J Fahra Md kin 193 t 34
The permate v s f the left le s found in f ts

a t puesa dt enty op at si hem and 1 oc le O IVA ISSEVICE and JORRAQUIN B! 3 t b 5 c d Bunnstergs 186

It ralm flire es i the tol werlmb th mitt ntel deat n with utg gee Tuffier Bull et m m Soc dech d lar 1923 xl 300
Thet tmet fag mata R LASTROVIFJO Irg de la lin Mad id 19 3 x 1 6 R ium th rapy I vascul na 1 II Mor on a 1 L R T41551 \m J Roe tg 1 1923 x 867 1364

Blood and Transfusion I est git of p fe | 1 blood do ors K Bronce Med Kl 923 v 130 | Blood to f on 1 I M gift Shl med 1blood do ors K BRANDE Blood traft on the blood go ps 1 I MARTIN ed mid 923 lex 1 58 Tru hæm gglutn ti and pse l ggl t at blood t fu L LATTE Al 11 h h (364) An ammu otransf : L COLFBRON A and E I STORER La et 19 3 cc 394 Intrapent | tra f | n fant H O Rt i] L McClulland Olio St t M] 9 3 1 780 fant HORtind Blood tra f a co d g t P cy K NATH Ra d Ind cate a i te hn qu f blood tran f i Marty Sigl med 931

Blood transfu n and re fusi in gynecol gy ZIMMERHAN Deutsche med Wich schr 1023 xliv

New apparatus f r blood transfu n with the citrate method G I COWLES and H W INTE S 12 Gynec & Obst 9 3 xxx 1 841

Stud es n the ph rmacol gy of sodium citrate G R LO E 1 Lab & Clin Med 923 1 175 Coagulation of the blood after to all ctomy 1 Lau

TE SCHLAEGER 7tschr f II is Na e u Ohrenk ilk 1021 V 204

The rap dity if sed mentation of the red blood cills and its pact cls gnifica ce G Li zenmeier Mu h n med Wch ch 1923 lx 1243

The v l e of blood c ll sed mentat n n surgery I' 1 THE Jentrall f Ch q 3 1 13 9 Hist I gical study of the blood an I sit g ry K BRING

931 30

The treatment ly plect ny of e nt l tlf m bo yt pann (p jur hxmor hag ca) X I Britt and N R Fynt L Vch Int Vd 1923 x 11 930 E turp t n of the spl n 1 1 a s f th 11 od R LOGEL De tech Zischr f Chir 19 3 clt 37

Lymph Vessels and Glands

Tube clu cervical ad nts in chil n J D Mc The teatment f the cul s glands 1 1 Neve. I actitus er 1923 es 36 \ayt eatment of tul reulou ! 15 Mario Sanciso

Rutz Zorrilla M d Ibera 1923 1 489 An pime of a guinal lymphal at Pol ?

Pol ? I m 10 3 xxx se m u 029
C eb) li 11 trys ff lat ralsupiu tingingui l
sd nt \ Cn treard d \ They vard Bull et
in m Soc m(d d hôp de P r 0 3 3 xxxx 1723 Lymph I ch ag in the wall of a derm d cyst E Strenger h h path hat 10 3 cc h 59

Malga t lymph ma (Hodgkin ds s) a adog pl t d) L R Whiteker 1 ch I t M d 1933 arl o-Th 538 13651 fr h m n thet e tm nt of the leukamus and Hodgle de e W. H. B. Mikins. Am J. koe tgenol

9 3 x 853 De | \ra tr tme t of lymphog a ulomatos s \ra RILL tol Merco Re dela tsoc mel argent 1913 x 1 660

SURGICAL TECHNIOLE

Operati e Surgery nd T chniqu I o toperative T eatm nt

H \ h f (367) ત E | ×1 1 1 1 С ш RRR In Shogl 693 Murther pert the local to beut A lutther pert transplit in H Kts A h f kl Ch o J th W & 10 3 lxx 604 C W GRIFFITH th 1 a 1 9 3 1 a 104

Il to pe to the 1 lar flaps N Fileators

mel 1 of 1 to 105

1 tg 1 n f the betern a pet open a ig in f the beterma a pic operation is ith beh r fdra ag mir i L cono v R IR Du L Arch f Lh Cl

I tr 1 1 ject n f lenal in the treatm nt of moope DI HT DUTAILLY I d chir 1923 operati

O ific tion of a I TOTALL MILL TO I TIX TOIG

Antiseptic Surgery Treatment of Wounds and Infections

The surgical tre tm at of burn W I Isr Ther m ["]945 1023 3 \$ The sent post of feederall trains T J Macking Int M J 1023 in 41 The fact is fan of the element ganuli e w L. Militoriosa III Lusissa: / falli (Ch [367] The triogs flaced gault gunut W CX K XINN de trall 1 Cit of 1 Cit I est gate n th the peut c lu f netl ! f 1680 Chi Irm It I la d lectant I Leru ven t Deutsche med Wh whr 1911 al 1 (8 Th hypoclifites f comm r arithe (rrim th) O it district and I law tema a mill o ;

1 them thraps fry pelas. 1 Tro v O os het I rote la u 49 The treatment of ervs pel 1 v in ct 1 1: + Arch f kl Ch 10 3 C x n 103 The tre tm t f malig a t f ru les f th f e t in cross a la sects of the path thread A lawr Ze trail if Chr 10 3 L 455

Finge tip niecti s F I Lix von Thrp (az

tq11 38 1 857 1933 38 3 637

Decusion with time to facult primary feetu of the heal DID Witkin CM E & EDS ex GT Mileater and there Bri MI g 3 25

Angesthesia

Anasthesia fr m the su geo s ps 1 f w W T r TER DISTR W I DE C WREELER Brit M J 0 1 i Anasthesia i hliren H 1368 GT N B t 1011 it 80 d t s bent t | I B rec Williams Cocui Brit VI J 1923 i 10 8
\[\alpha \] 1 a gesthesi i 15 15 H Kurt att
Tric fre Lent BI i Chi | 0 3 | 4 7 The flect in oca upo t strated m sel 5 M NEUSCHLYS K tr t d 1 1s met er ot 923 xx 1 64
Feel page fter 1 t n ne
H Steren Zische f St m t 1 9 3 i t n ne thes f th j w

Muc m miran næsthesia a i ts ft etiects G Fromta Deutsche M nat schr f Zahnb ilk tott ib On a sect a wither a poperate m on the extremities. I h M Ze tr filf Chr togg 1 14.6 kgi la esthesi II N la z] Med 1. Georgia

10) 3 4 3 M theel floc I name the is in 1 loss all surg ry and Left Leban & Schwa be g 1011 I dication for spinal a sistema Libertage and

(12 172 Bill et me be de bir de l jogt zit.

On the surfand leven cases f pi langithesis ii ses Charris - I Richte Bill i trifm Socid IH S CHATHS 0 1 1 1428

Sp. 1 or 1 seat on CRACTAL EXCEL CHARLETT Rev. for med M x 1023 it 35 Furth r eport on p 1 nesth is M C Smith set (5 I a Rt T V rgs as M Month 19 1 L6 1 I lace I to of 1 la sethera (Licuise
11 M c taine. Il il et mem be char de Par

93 1x 500 I artheus nl its drawback B Desress If amb to f if i with t va in sα si

rother 1 I Drs B gars and I Richr Bul t mem See de chir d. Fa. 9 t. st. 1389 A case f. rinary retent. f. fourteen da 's secondary to all parather and ed with a san I Da Pack. Plack Rue 9 3 see hir 6 4. Lecknisher and 19 Let 15 1 mm 14 1 1931 1 1851 1 ha of fallenga att and the apparatus (ruse with a fifth and the apparatus (ruse wit

conversed a 11 F It a r] Lab & Clin. Ned 1013 ix o The findity is the ages a resthesta. L. L. RITH with Lilim St. I. V. g. 1 and 5.0.

De this to this his in restressal case i Base.

dw dee & W name Zentralbi f Chr on 1 53

ral neithers alued! the tra enous inger I bhealb trat I Levery ad G Ri ex J de met I Ik d u o t He sat legical nd roles: I t dy of chlorof im nar (Rino Arhildh 923 mi 545 -- 11 11 Ible I his to the control of the control (m k o j l

In k 0 3 l 350

The tre tm t i answith tu proope by 1 tracardiac ject in I lee b T rr Bill et mém Soc d'eh 9 1 1 41

PHYSICO-CHLMICAL METHODS IN SURGERY

Ro ntg n logy Herlt foets lgvt the lp tt CHI were ChitaM II il Clit String N 1 k post is the pathing on see I M II and A S Warms J Rad I of A H I of I M II of II M II of I M II of 952 The perat f Vray tube at high lt ge Coottoer d C N Moo E J R d l 924 f X ray tube at high lt ge W D

ool lhah It g Arat be W D Cook d C M Er Am J Roentg of 9 1369 DUL Lt t 1 But get H J TREEL 121 Ht 1 per and teet W 1 Table
h k d & 1 t thrap 0 3 x m 03 Froc
k Soc V d Lo 1 3 Sect he from Derap
Teathm the 1 ft w teen treatme 5 1
hAF 1 5 1 R 5 gl m 4 033 1 13 dm
C ft 1 1 x 3 a 1 gamm rays 1 d.m ni acii i Drs tra 1 Rd 1 93 41

Studes on the biological effect of the \ray 1 \land 1 Mayoz Am J Roentg not 19 3 968
The occurre ce of two heritable types of ab ormal ty

among the descendants of \ rayed nuce C C LITTLE and H J Ba G Am J Roe tgenol 10 3 975 Sta dard atton of r ents n output F RIEBER Radi [369] 0 Ogy 1923 1 153

Th use f odos urve 1 X r y the apy how 1 g the ce acy of the D ssauer charts C Gofflies Am] [370] Roentg n l 19 3 x 896

Ionizat n meth d of measuring \ ay dos ge

DLANE Am I Roentgen 1 o a x oa The eco onucs of dos metry in ad therapy G FARLA

ane eco onucs of dos metry in an incrapy of IAILA at EH QUINBY Am J Ro tgem 1 923 x 044. The peer istat soft ep x ay therapy B C Cts. with Illin s M J 1923 x 104 320. Deep rad the 2py F García Doxato and X García Dyxto I g dela d Mad id 93 xxv 462.

of kel d ca s treated with adi therapy A R T er Uol & Cutan Rev 1923 xvvii 755 The tr tm nt f care nom with the r ntgen ass

lectu s on th physi al ba es of deep th py L4 13701 Desd n Stankopff 923 Malienant disease and its t tment by the \ avs

radi m and el etroe agulatio G E Printer North west Med 1923 XXI 432

The tatment of malis at diseas by de p \ ay therapy E H Zweifel I ish I M Sc 1921 55 xxu

Bological in etg tio softbeeff et of radiati on e cun ma F kok and K Vorlae per Str hle the ape 1021 XV 56 tecti n ag inst rad tion A U DESJARDINS

Rad of ry 1923 1 2 The role of the 1 e in centgen inj ne P Neuda ad F REDLICH Wien kin Wehnschr 023 xxxv 273
Vr v haphyla is V Fovrau de Courselles Chin

3 l b 1923 4 7 Roe tgenry 1 t vi at n S L Warren a d G H
Whitpele J Am M A 1973 lexis 673 [371]
Roe tg n y toxic too I B ctert I in sion of the

blood tram as influenced by \ r y destru t n of the mucos leg thel m f the small inte t ne II The um

ulati e effect or ummat on of \ ray expo u es given at narying interval III The path of a beam of hard rays in the hang organin IV Intestinal le ions and acute I t u ation produced by rad ation in a variety of animals S L Warren and G II Wirrenze J Exp Med 1923

XXXVIII 7 3 725 731 741 In estig tions in the effect f the X rays upon the me taboli m of calcium chlorid and its r lati n hip to the tre tment of a ray 1 tox cation Il Sielmann Strahlen

th ape 1923 xv 458
Roentgen r y ulcers espec ally their s g cal treatment PEIS LEUSSDEN Med Khn 1022 XIV 118

The treatment of roentgen injury II NEVERMANY Min Wchaschr 1023 H 747

Radium

Fo cep for cleaning r dium needles and tubes J S ULLYAN Am J Roentg of 1923 x 089 Rec at developments in radium therapy F E Six Son Ill nots M J 1923 xliv 327 [37]
S beut neo s radium the apy Bensegel Bruxelle [371] méd 1923 IV 192

On the gen ral effects of exposure to rad um on metabol sm nd tum r g owth in the r t and the special effects n th testi and pitu tary J C Motrkam and W CRAMER Quart J Expe Phys ol 1923 km 200

The treatment of kelo ds with rad um L R Tayssic C I forma State J M 1023 XXI 520

Miscellaneous Phy iotherapy I B GRANGER Med Clin N Am

1023 VI 10 0 [372] An w method of intratumoral t eatme t with thorium L HALBERSTAEDTER Deutsche med Wehnschr 1923 Tlix 1205

Ult as olet adiati n i malignancy A J Pacini J Rad ol 9 3 v 430

Diathermy-its field and application R G BREVER J Rad ol 923 iv 423 S gical d th rmy by the needle method A Lewy Ann Otol Rhn l & L 1920 923 x x 1086

MISCELLANEOUS

Clinical Entities- General Phy tological Condition

Importance (phy al h m ty; rg v II Schape the hk Ch 923 cx 75% Surg I hock J L Adam nd J Q (R VES \ O! V & S | O 3 tev 20
II b log cal pr pert f t m t ll (t impl t e pla tat n d mpla tati n K Ermas hi the program The tent ga The tensity of the man permental transfer of the tensity of the te See le li d P o 3 l 366 Milliol myel m A F Walk i C dia M A Nyomam 1, mp tills the the ut note CR

Scle oderm with ga at ne of the finger H COHEN Inn S R 19 3 Lx 8 4
Pr phyl vs of cuta eo s ca ce M Du Bots Rev méd de la Suisse Rom 1923 al il 80 The ging fep the lornat d the radato se si

bity R DUNCAN and E D WARD Nok W J & Vd Rec 93 to 165t H1 th p for extance us ep thelomata L ALER AN RE Sglo med 1923 k 47 the foot and a case Ca moma fith leg and do m of the foot and a case of the second of the

Im ltiple oc tg n ca in m ft r adiat n f r l pus M (o ser A ch f kln Ch 19 3 CX 7 5 9 The color a dg with of the has as diagnost c signs in a fea ce E L ZOELLAGE Zent albi f Chi 1923 412

in who logs all and che motherape to me thou of treat m tof can R WER ER Strahlentherape 1923 x

Som new co cept [the pathology of malignant tum is \ Desire Bruxelles-méd 033 1 78 The pre-t statu | th ca c r p obl m] L Camp 1 Med 4 5 Georgia 933 x 4 5

1 53 1 1/9

Varioseule and the ete time to Fixe Med Kin 1921 xx 13 14 4
Hyd ticysts f ou likat n R 15 L Mara e pan d trut tort 412 Mixed treatment (rad wurg al) 1 kt 1 h 1 f Vie Sig! m(1 1925 1 18 A se of I nom my n todes T (Ora S re Clin \ lm 1323 to 1513

General Bacterial Msc tic n I Prot zoan injections

Focal of t n the t te t e n cohan m ith l xl ganst niect x 1 1 155 her the fact to focal of t II D SERRORE Dan H BATH I Brin w a t V k utr Re le i Note med. In at gg 1 (1 the free a near the Bill South It the grant II Hww | Maxie 9 5 5 7 Fatal strept x sept an will n. 3 a lest t A Liv II Day Bill t ma fest t

Soc middhipellreous stroop
Angtran millith ligher lite
Jos in the cape Silite Illno Mil 0.73 xl 3.00

Draw er of take culture from the local lens B trrit ! ! ital tchir to t 1 420 ¥ 1141

Il if in the treatment I sophil L. Ber Claur 11 10 3 11 35 Ald m I actin m you I Street Wen Ily Whose to 3 t 1 ta The frequent resent 1 gam be nith put a nth urse farut am tedyento Pri an I un

ger ut Hill timem bur me I d him 1 1 12 1 Ductles Glands

Melan itrb ceadth miloual mhaldt Wilhan Brit Milios

Hospitals Medical Educati n and Ili t ry Tell best 11 from toutet 1 kett 1 1 C 11 10 t

Medical Juri prudence

In a the lift of all me CH SL Y Dr Tiir like paa 1 lii ir lii limit ker V W P 18

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN Chicago SIR BERKELEY MOYNIHAN K.C.M.G., C.B., Leeds PAUL LECENE Paris

SUMNER L. KOCH Abstract Editor

DEPARTMENT EDITORS

DEAN D LEWIS General Sug ry

ADOLPH HARTUNG Roentgenology
CHARLES B REED Gyn cology and Ob tet

INDUST E SCHINIOT G in to Uran ry Surg ry
PHILIP LEWIN O thop d c Sug ry

ADOLPH HARTUNG Roentgenology
FIRANK J NOVAK Jr
Surg ry of the Ea
Not and Thro t

CONTENTS

1	Authors	11
11	Index of Abstracts of Current Literature	111
Ш	Editor's Comment	x
ΙV	Abstracts of Current Literature	393 472
v	Bibliography of Current Literature	473 494

AITTHORS

OF THE ORIGINAL CONTRIBLTIONS WHICH ARE ABSTRACTED IN THIS NEWBER

Admgué, F 393 West Ass Amos H I 47 A derson C W 49 Indré 441 An pach, B M 440 An pack W I 47 Hage H J 465 Hage y C Jr 406 B Il nee C 408 Bard n 400 Barraud 456 Bault R 455 Bergeret ans Berk le L 437 Restrand 418 Blanc H 445 Boorst in 5 W 452 B ppe 444 Bowing II II 4 7 Br tn r B 402 Bretts r J 442 Brou t 443 Bruen g F 428 Il mm 469 Butler I II 303 394 Calle a 300 Callise n J C 395 Camero II L 405 Carri e 410 Ch rbo n r 1 454 Chouk A 5 4 2 Cl irmi t 1 420 453 Cl user I 430 Col II II 4 1 C lebrock L 457 Culet too Comman! u 43f Costant n 4 8 Cotte 419 Cr mer II 469 Croth is B 438 Cro 5 J 107 Cru k hank J \ 434 Cu éa 42 C n sham J I 194 Cub my B C 42 Danb \ B 433 Da will L VI 445 D | S 440 D | T D 42 D al D | 41 D an I | 398 Deck | II | 4 2 Deck II I 4 3 De Courcy T 1 394 Del te 460 D hb f 449 Della I t P 436

Del ux 400

Despain A C 467 Desar F 464 De Vea Breef R. 47 Dori L 415 D h nge R 453 Du rgey J 444 I mg I A 439 It fif att I teman t B aid Fue 41
Faue J L 47
Jerg n J H 426
Fa L E H 40 lischba b \ 11 398 I tas K 4 o Iranc 44 Frank L 456 I ave 1 \$ 3,6 In 1 R I 465 Froel h 450 Elu 43 (th 440 440 (11ko | H 421 (1ko | H 441 (Butt W 435 (H(n A I 44 (net 4 8 (ra ! au 447 (m gr F B 469 (m en R C 445 (m W I 45 (ref 4 t Huden K I 313 Her B H 44 H 41 B 194 H me 1 T 438 Il tman 4 9 4 II n v 5 C 4 5 Il atly C 1 If atly (1 30 If p try W B 410 II pl r 1 194 II rt ! ! ! 443 Hey (F 4 Histic 4 111bs R 1 451 II rst J C 437 II lm (394 I y R H 10% J cks 1 > 4 J D 451 es C C 395

Juli 1 W 419 Ley B W 303 hilte 1 412 kn z k 4 i h = cclc 1/ 413 k trat ff 1 471 Lumin 5 5 416 Liman 1 1 44 Lanima 1 1 451 Lee 11 1 41 Lee 11 1 450 Let b 440 1 472 le n l 442 les D 450 Little C C 405 Liu 1 h. 45 Loom 1 M 420 Lockhanit 1 B 461 Luts J F 446 L nch F W. 4 9 Mackenze W K 411 Ms RJ 42 M Illian m & F 412 11 11 415 11 m D 4 I VI so N K 436 VI mo 1 1 I 455 Vi th 1 11 194 Vi th Lotnat 429 VI 1 gut 432 VI III) (I 461 VI) (W C 400 1 k m T 4 1 N b la 435 Olin c 421 Olm v J J 4 5 I c C V 461 Palm C I 4 I le Le sile 467 Permer 441 I tt Dut II P 429 I tt A \ 429 I lass I D 434

Ptr J 1 440 1 tt ger F V 4 9

Qumby I II 464 k fin 443 R battu 300 Rei ha I W 4 4 L nt n J W 420 Rithi V 420 R h rd I C 44 121 Kehard n J J 3/6 kiestiel | 1 44 kosenthal (421 k l y ll \ 433 kul I C 442 Rjersen F ll 452 San r F D 451 Schinz II R 453 Schinz II R 455
Sch pic E 4 2
Scellg M C 412
Sceltz L 4/5
Sc ctt L 45
Sh pic V T 413
Ima n II 4/0
Sumpso F F 4/0
S br V II II 334
S I r M 432
Sn th S WacC 305 309 5 tta 11 5 4% palling 1 B 420 Stabake F 423 Stahnke F 423 (n O J 3)7 St nberg B 437 St wart M J 4 4 St M J 430 t rer I 43 St rrs R M 436 St Iz F 40 Va le hnof D 420 Vernoni C 453 Lian ay 403 Lin La kum W 44 1 ron 415 11 11 11 F 4 7 11 1he F 11 R 397 11 hh d k M 433 W Jth 1 44 Walton \] 4 II rth n A 5 466 Hatso F VI 44 Hed nsk & 456 We hert VI 308 Wall P47 W ma Niter R 47 1 tr 1 L. 45 Wh ppl G II 406 Will mso G S 40

CONTENTS-MAY, 1924

ABSTRACTS OF CURRENT LITERATURE

Mouth

WEIGHTRY M Metastat c I p lis

398

SURGERY OF THE HEAD AND NECK

Eye

HADEN R.L. El tiel cal t ninth Eye of Beter frm Infected T th	393	Penod	433
key B W 1 tid phthe c S rum in Oc ! r Infe	393	Throat	
Anno tre E Amblyop Du to Abu e of Alcoh I	393	CALDERA The Biol gical Tre tm nt of Sartoma of the Upper Re p ratory Passag s	399
BUTLER T H Mod r Opt cal Method a the		Gavetto Auto accurat on l'ad m Ithe Y Ray	.,,
Ex mi atio of the Fye Butter T II M cle Re ess on for St ab smu	393	n the Tre tme t f M I gnant Tumors I the Upper I espirato y Tract	309
Curringua I F Per ste t S II n of the C	244	College a dReparry The Intr cra sal Prop gation	344
junct v	304	f Pharyngeal Tumors	399
DE COURCY T I nd MATHER J H X P y Treatme t of I t rst t al Ker t ti	394	SMITH S MACC I deat n for nd Co tra Ind cat ns t Tonsill et my n Adults	399
HARMAN N B a d Othe Dic on n the		Myerson M C Bronchose pic Observati s on the Cou h Reflex in Tonsillectomy and G n	
Cl ical Significance of Scotom t 3 TALK E. L. Retr. bulbar Neumti Associated with	394	eral Inasthesia	400
D ase of the Na 1 Acce y S u	395	Neck	
Ear		CLAIRMONT P Lymph ng 11 c Abscess f the Neck	400
		RETHI 4 Th Ope at e Corrects nof th Bilateral	
SMITH S MACC Otite Chile te tom ta CALLISON J G Chrone A al Dich se	395 395	NI d a Post' n of th Vocal Cords ROSENTHAL G S bd a s f Tube c lous	400
J VES C C Acute 5 pp rati Ot 1 s Med n	395	La yng tis It Tre tin nt by Tracheofistuliza	40
IRASER J S All f an Int nat nal In estig		Greif Latyngeal Pe ich udrit s Due to Roentgen	
tinunt Oto ci a d All d I'm of Deaf	396	Ry Teatme t Williamso GS The Thy od Appa atu in Man	401
KICHARDSON J J Tle \ Ray a Adjus nt the		MARINE D The Impot no of Or Kn lg of	401
Train at of Impa ed Hearing	396	Thyr id Physi I gy 1 the Cont of of Thy old D sease	
HAYS II M S p ct d Mast dit Clm 1D g 08 w th Spe 1 Pef en t the I terp et		REINHARD W Expe in intal I vest gat o s on th	40
to of the \ Ray P ct s	397	Rel to hip of the C rs cal Sympathet c to the	
Wats if T M R Th W k f h rn gt n th l hys ol gy of Postu	397	Thyr d Gl nd Breitner B Th I'ffe tof Iod e nth Thyroid	402
	391	VINCENT The Tre tment is pount ve Thy od	402
Nose		it Stat to a Eight Case	403
Sten O J \Sur y fth H JF Q tto -		STUDNAF I The H t l cala d Clinical I dings 1 Struma 1 Childre 1 Lo et I ranco 13	
ACtcalke of the State Ritet the Ltol gy ad Tatm nt	397	I CASO A S Pr Operation Teatment (Pate to	4 3
I ATLY C 1 a d CROVE S J 1 thm and In		with I phthalm c Goute with Spe al Ref r cet Lugol's Solut on of Iodine	
fect as of the 1 ry Nasal S n es 1 St dy Ba. d S ty Tw C	397	REI 180 W Extroat f the Sympathete	403
DEAN L. W Th Te tment i P ra asal S nus		G gha n Ex phthalm c G t	404
Den Indited Aug Childe Inscriptor V W The Rit fransa! Sus	393	CIMOTRIA OR THE COLUMN	
I) ee eet Pulmpy I f to	398	SURGERY OF THE NERVOUS SYSTEM	
Ivi R II R dical Operat th M Il ry		Brain and its Coverings Cranial Nerves	
S us nd D mag t the T th	398	CAMERO H C Intra ra al B th Injuries	4

408

400

410

4 8

208

412

41

HARVEY S.C. C. n.ps. d.Cra.lix rebral Injun.
Old 5 11 nflat voo R Tam teC rebo- 1 1Rt rheaD et Open gofth Vie 1 1 th R t Lat r V bit 1
FARR R I E cyhalt s Simulat Acute Ab-

n RI Fejhalts ⁵imulat dm l€ dt + BICKEY C JR B 1 Mores

SCHOOL IS Intan IT me WELL I M and Weissen Netter R C brom g I fum a d the B I t Wase m

I eact n Derr N. M. And tgt nit th F il Pit t y mi Thirmit Cl de fart I Th Summary of K It

Sp nal Cord and Its Coverings

Avenue W. I a illu s HII From to I wal pec by Th raty I I my It.
Ut liz t fllypert c Solut th th Serum Ir tment (1 penm ntall 1 myel ti

Peripheral Nerve

BLEASCE C Sam K It f S e Sna t most

Symp thetic N rves

Itzer vi F Tie Operati e Treatm t f \ m a ly lat me to of the Cerve I and I ect The Supathetes and R mak It tm t fan Mn tmal keet Operat th It soil I res u e

BURDLY & MATH Y CO Intral Sym p thect my nil inveli fth ler

SURGERY OF THE CHEST

Chest Wall and Breast

STILL I & d F) TH F R Lips phage Cra 1 m of th Breat

Iyl on the C c G tropyl ec D 1 pm t la ecco 1 y Ca fth B t Th Y rs Later with Mo HARTMA Demo trable kecurre ce in th e e 1 St m ch

Traches Lungs and Pleurs

FISCH ACH I W TI RIT ff ra scal h n Decaset I im ry I fe ti Heter CF Impy m Ith Ilu tCa ty

M scella eous

DE L D W PARIFE G T , & d C L H H Th SUR 3

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritone m

S ELIG M G a IC MEE K S A1 fm t1

Gastro-Intest nel Tract 405

WALTON 1 I Th Chron Dy pepul I'll men 4 NARAMURA T Focal I fect n Ulcer I the 5t mach

400 STIMART M J Th Pathology f C tree Ulcer fril Th Halemy flegte Ulce Prill 400

I tholog I Observ t ms n Gatne and 406 D I nal Uler McCareny J \ Acut Perf ted Uke of the 4%

t mach Ktuth SS Complement all low Operation

(Castne Uker I threams C B Rec erent Ulcer I the St ma h

a I Duodenum El i al \ te n foced ec 1 Ft 1xo D tr I w in 1 T Syphil + fith St mach Roerigen
Apperance fiel re 1 After Treatme 1 40

4 1 M ar A B A Roenige I meal Study like m T more of the t ma h

A Ped led T mo C SET LO WY BERTR 1th St mach

Hearses Pyl gat Cane r Ga tropol ee tm Cur De lopm t fa seco fary Can ce f the fire t Three 1 ra Lat sene f a Demo trall Recu re ce St ma h

43

4 \$

49

475

442

460

411

42

421

4 3

414

424

LYNECEW Spat Reu A TREWS I Duc len I II rn - A M omer Crry IC. RIE Chnc Oclason ft D 1 mly a Viewe tric B 1 in a Case f G t plas C re Effected by D lens-

j ost my Second ry t (a tro I tero t m DIRRIOT D a IDANS T D Chron c Occl 43 to f th 1) od m i V s roptosi Based n Study (Tw tylight Coes

To TE LE II The Sirg of Teatm t fith \ Resect ! Du ! al Ul e Resects I the St maht Isl I th Ul

R error J M Th K lat n.h.p f J J 1 Ulve to th Use f L bu balle S t re Costing B.C. n I Mar at R. J. Sympt mat logs

anik i log if ni g in Chro c tope di FAURE LENE a d Oth rs OM ZYC II RIM

f Ca ce f th Rect m Rese t ço Cae f R al Clo

Hall If the Det Carcal Stass Which I ly ld pled I Use Coes I R ctal In

nt n

G Il Bladd r Paner nd Spl en Hr v C (L 1 Ch Allm IIfct

re F Chilth th Spe I Ref t Birvift 11 t Cmplca fr ns

JH Tl C t I feat t Cholecy t ct my DECKER H R R t Ch 1 l thi

5 On Q est

1 C 19 Bldl 5 g v Bas t n 1000 Ope t MCACK JC Rpt fth plee

Miscellaneous		OBSTETRICS	
RICHARDS L. G. No Traum tic Hern a of the		Pregnancy and Its Complications	
Daphragm An Embryological Vie point	424	SMITH F C and SHIPLES V T Th Abderh Hen Reaction	433
GYNECOLOGY		ROWLEY W N D ntal Ca e During the Pre atal	
Uterus		Period WALTHARD K M Th H t log c Chang s 1 the	433
Fercusor J H A Note on the R I tive Me its of Ope at s on the Rou d Ligaments f r Retr ersi n i the Uterus with a S gge t n for a		Ovanes During P gna cy DANBY \ B Thr Ca es f Pregnancy with Ly	433
Proced e for I c easing the Sc pe of Usefulne of the Ale d Adams Operation	426	t a asat n of Blood a d Album nun CRUICKSHANK J N Studes of the T tem s f	433
COMMANDEUR a d EPARVIER A Uterine Fibroma Sm lat g Inte rupted P egnancy	426	Peg a cy a They Occ in Gl gow Prass E D \ n P tem \itro enou Co tituents	434
DE VEGA BARRERA R AS no pub c Ab ces Fol		of th Blood a Eciamp and All d C and tion	434
lo gR e tgen Treatment f Uten e libr ma Bowing H H Th Apple tion f Rad m in Oper	4 7	Ecl mp	435
tl Bo derline Cases of C c oma of the Cerv v Uten B fo e Ope at on	4 7	GILLIATT W Placenta I ræ 1a in f 5 cce si e P egnancies	435
FAURE J L Systematic Empl yment of M ck lic Dr mag 1 Hy terect my f Ca ce of the		Nubiola D sintegrat n of the Plac ta in Uter pl cent l Apople y	435
Ut nne Cerv v Brettauer J a d Rusin I C Hydr U et ra d	4 7	DEOSIN L. Views and Obs. vat on in Abort ons. MASON N. R. d STORES R. W. An Analy is of	435
Hyd on ph o s A Freq ent S c dary F1 d g in Cases 1 Prol pse 1 the Uteru a d B1 dder	41	400 Cases of Extr Ut me Pre ancy	436
means 12101 page 11th office a 421 out	44	DELL PORTE P A Case of Ext Uter ne P eg n ney t T rm with a Livin Child	436
Adnexal and Pers Uterine Condit ons			
WAHL M T T berculous Salp gitts	427	Labor and Its Complications	
COSTANTINI nd FULCONI An I fe ted O ia Cyst C mmu catin with the Re turn Hy terectomy Cu	428	STEINBLEG B Pituita y E tr ct Labo BERKELEY C The U a d Abu of Fo ceps Hissi J C The Case Igain t Axis T act o For	437 437
External Genitalia		CROTHER B Cha ges f P e ure In de the Fetal	437
PETIT DUTEILLIS P The Treatm nt f V l	429	Cr nio 1 b al Cav ty HARPER P T The Oc put Po ten f	438
	419	Euc L 1 The Pepas of B th Lacer to a fithe	439
M scellaneous		Cerv Uten Jupp A M A New Type of Casa can T chnique	439 439
SPALDING A B The Inc d n f Ve eal D case in P ti ts Suffering with Sternlity	4 9	Stove M J Rep rt of Ca of Po tmo tem Cæsa ean Se tio	
Perrir A V The S gu ficanc of C rvical Path I ogy in Steni ty	429		439
ANDERSON C W Th Ad 10 g n in Relat n to Stend ty	429	Puerper um and Its Compl cations	
LYNCH F W Tumor nd Di pl c ments n R l tion to Steril ty	4.9	CLAUSER F F not o 1 Te ts f the K dn y in th	439
POTTENGER F M What R I t n E ts Betwen th E d cr e Gl nd nd Sterilty?	49	G UTHEIR and LAPOINTE Thr Hu Jed and Fity Ca es of Pu rpe F c T eated by Cu ettag a d C nt u I rhati	
LOOMS F M The Diagn s d Tr tme t of		-	44
Stend ty Graves W. P. Th. Rel ton f B kache t	4 9	Newborn	
Gynec logy BERGERET a d MOLLONGUET P mary Cho	43	RIESEN ELD 1 1 The Physician I L s of Weight n the N wborn and Its C nt	440
p theli ma of the Broad Ligam t LLAFTEN E B logi Change Wit We k	43	WALTHE P nd I ELIÈVRE A P lyc) t chil eys d Mening n Th e C ec t e Inf nts	44
Roentgen Irradiat n i C t G log l Condit n	432	Miscellaneous	
Mandelstamm A E Th Oper t Tre tm t f Incontin n of Unn 1 th F m 1	43	ANSP CH B M Th Tr nd I Molern Ob tetrics What Is the Dang e? How C n It Be Changed	
MexDry W B Th T h g f Obttc ad Gyn cology	440	HENDRY W. B. The Teach ng of Ob tetrics and	44
BUMM Ro ntge C canoma in the F mal	468	Mackenzie II R Roetge g phcPlimtry	440 441

Descrier Con neal El vat n f the Scapula

449

Adrenal Kidney and Ureter

GENITO URINARY SURGERY

Adrenal Kidney and Ureter	Davis J 5 Arm Clest Adhesio B h thor cc	449
CLAL IN F I retu nal Test of the Kill ey in the I u recrum 419	PORTER J I . a d LEWI P A Speci Cornet f	417
WALTHER I an I Lruiture 1 P lyes to k doey an I Me ex le in Three Conse ut e I af nts 440	FREEDOM Chinch is Tube cul Arth tis file	44)
Persier Che nic F teror nal Synd me with heplroptou. Col t my harmy y Cure 44	M n v D J Trek I ton 1 th L er hal	45
BRETTAUER J & fRint 1 C Hydro Uret ra 1 Hydro phrox AIr qu t Se 1 ry 1 d ng in Cases IP lupse fithe Lieru and Blaff 442	Act of the II man I the Action of the Os Cal is	45 451
IRANÇOIS Tiree Cases I I en eu al C I n	Surgery of the Bones Joints Muscles T adons	Etc
Bacill Infe tion D t Care I Start Which We Cured by Intestinal Vist mos 44	Hans R \ \ Report f Fits \ ne Cases f \ Scot sis Treated by the F n Oper t n	45
(RANDING A. Uret ral R flu th Opposite Kid ney in the C rise (R n l Meet 442	Fractures and Distocate us	
LEVY K The Verd nt and C ropl cati ps in So C II 1 C r d R nal Tubere losi 443	Severate M. Cha ges a Fra tu. Tre lm t	452
RATIN In I kesults I Neph ectomy I r Tubercu	REFESON F W Th Treatme t f I ractures from	
losi 443 HERTZLER A I' Blat ral \ th lithiasi Opera	Browshi S W and I vo-way I J Tl Treat	452
tndlocllarther 443	m tflactesly Onhpedc With Is	45
Anust Ind kesult 1 Operation 1 s ken 1 Cal	Decision R The St ly nl Treetm t 11 ra	4 3
Berry IB the Th Pat fluadth	JEAVA 15 t ED Fratr 1th P f m Bo	433
N rye in the Zo f the Lumbar In 1 in for	CLAY MY I nd Scir II R C servat Te to ent fD location f the Semiu B n	453
No phrect my Diversesy J P rman at Bill teal II e tret r	Civeso vie v A Smpl Mithed fM k gth Haifth Fmu nift Appliat ni Uit	
ontom 444	igth II d nd Neck th Screw	454
	Brener R I V su Tr L. I Osteo ; thesis	
Bladder Urethra and Penis	I Duph weal kea to es I th Leg	45
G vas R C and Daymor L. M. Stud. the U et an i Bl. lde with Linecasi Ref r ce t	I haph weal Fra to es I th Leg SURGERY OF BLOOD AND LYMPH SYSTEM	
G vas R C and Daymor L M Stud the U et and Bl life with Especial Ref r ce t R guightst a f th Vesical C t at 445	f Diaph weal Fea to es fith Leg SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vessels	
G vss R C ndDvmor L M stud the Uet and BI like with Lspecial Ref r cet R gungtat n fith Vesical C tin 445 BLANC II The Interureteral Ba 445 WATSON I W Th T Aon Surg ally Con i	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vessels Wirr's K D cu n f \ n n i l l g (n h t W l l tl vargeal Tre time t	
G vis R C nd Divisor L.M Stud the U et and Blikle with Lipecial Ref r cet R gurgilat in the Vescal C that 445 Blave II. The Interneteral Bis Warson I M Th. T kon Surg ally Conlected It lath 183 a New M th. 11D gn a d. 185 Open t. eVis when t. 445	f Duaph weal for to es the Leg SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Warrix K. D. co. n. f. l. n. m. l. ll. (n. h. ll. ll. th. Surgical fire time is Lister to Multiple D to Live. 47h mbos. n. a. Case Thromosport! it is the Lat. 1 u. l.	S 456
G VES R C and DAYMOR L. M. Stud the Uct and B! lide with Lapecial Ref r cet R gurgista in the Visical C to t. 445 BLANC H. The Interpreteral Ba. WATSON I. W. Th. T. Ann. Surg. ally Con. 1 cerd. It I tall f.g. a New M. th. I. I. D. gm.	I Disphesel Factor follows SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels When a k D co is f A is mill 0 g (is h 1 W if 11 Supposed for the till Hear tay MultipleD to the 4Th index is a Lice Thrombophil to fit Lat 1 us f A allong n Cu Flank L Mee tin A acuto Occlu Rejit	S 456 456
G vis R C, nd Divinor L-M Stud the U et and IBI like with Lappeas Refr e t R gurgata in fith Vesical C tri R Relation of the R Relation of the	Chupch well has toe ith Leg Blood Vestels Wint's A. D. on a f A. nm i il g Wint's A. D. on a f A. nm i il g Wint's A. D. on a f A. nm i il g Reserved in the first of the	S 456 456 456
G vas R C of Deviror L-M Stud the U ct and till like with Lopecal Ref or et R purptat in fit \(^1\) veidcal C in the Hasse II Representation of the Veidcal C in the Hasse II The Intervient II and II The Toon Surg ally Conicred II faith [3] a New MI if I I D gm a d Has Oper t e Ma spem t 445 Cott 777 \(^1\) F \(^1\) I I I I I I I \(^1\) N whereoed it \(^1\) I i [1 of m and I litolaps y 446	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vessels Wisn's F. D. on a f A. nm i B. g. (1) M. J. If Surgest for the file to the file of the fil	S 456 456
G has R C ad Daviror L.M Stad Be Uet and Ell flew this Lapecial Ref ret 1 Race rill The International Control of the Race rill The International Control of the Race rill The International Control of the Race rill Control of the International Contro	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Wifer R. D. Cu. n. f. A. nm. H. B. C. n. h. W. j. Ht. Surgeniter time to the control of the c	S 456 456 456
G has R C and Daviron L.M Stad the Uct and full flow with Lopezial Ref ret 1 Repurpish of the Velezial C and 1 Republish of the Velezial C and	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Wider K. D. Cu. in f. V. nm i U. i. C. in h. V. W. Surged Tree time to C. in the Surged Tree time to C. in h. V. W. Surged Tree time to C. in h. V. W. Surged Tree time to A sid Orang to Late 1 is us A sid Orang to Late 1 is us The C. See in challer S. yet L. V. I Fandel in the Loud II S. yet I Tree in the Blood and Transt lon Blood and Transt lon Blood and Transt lon C. As I S. D. On Prot. V. V. R. D. C. i. i. i. the Blood and Transt lon Dlood and Transt lon C. T. C. I. I. S. C. C. C. C. C. I. I. I. S. C. C. I. I. I. S. C.	S 456 456 456
G was R C od Davinor L M Stud Be U et an et li lle with Legical Ref r et 4 R gurgiat in (th Vedical C tri R Blaxe II The Intervieral Bi 445 Warson I M Th T son Surg ally Con i ered It i lath 1g a New M It I D gn a d ils Oper t e Ma upen Courri F I I I I I I I M A 145 Warson I M The T I I I I I I I I I I I I I I I I I I	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Warr's K D cu n f \(\) n m h ll g (n h t \) if it Surgeal Tre time t (n h t \) if it Surgeal Tre time t A d Ong n co \(\) if it L t \(\) if the L t \(\) if \(\) in the L t \(\) if Park L Meet in \(\) \(\) colo \(\) Keq it Tank L Meet in \(\) \(\) colo \(\) Keq it Tiff c C es n \(\) child S yer L \(\) t Finds in the L nd \(\) it Blood and Transt \(\) loo PL S D \(\) Now \(\) to \(\) The C \(\) Con \(\) The C \(\) colo \(\) Colo \(\) to \(\) to \(\) f Color \(\) L \(\) Is \(\) for \(\) to \(\) In Cut you \(\) Is \(\) In \(\) Color \(\) In \(\)	S 456 456 456 457
G has R C nd Daviror L M Stud the Uct and tall the with Legical Ref ret 4 R gurgiat in (th Vedical C trit 1 R gurgiat in (th Vedical C trit 1 R gurgiat in (th Vedical C trit) and the Uct 1 R gurgiat in (the Uct 1 R gurgiat R g	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Wifer R. D. Cu. n. f. 1. mn 11 g. (n. h. tw.) if its Surgenia Tree time to the control of t	S 456 456 456 47
G has R C nd Daviror L M Stud the Uct and tall the with Legical Ref ret 4 R gurgiat in (th Vedical C trit 1 R gurgiat in (th Vedical C trit 1 R gurgiat in (th Vedical C trit) and the Uct 1 R gurgiat in (the Uct 1 R gurgiat R g	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Warr's K D cu n f \ n m i ii g (n h t iii \ 1 ii \ Surgeal Tre time t (n h t ii \ 1 ii \ Surgeal Tre time t A si Ong n Cu \ 1 ii \ 1 ii \ Surgeal Tre time t A si Ong n Cu \ 1 ii \ 1 ii \ 1 ii \ 1 ii Fank L Meet in \ 1 a cub \ 0 kclu \ Rq ii Fine C ce n challe S zer L \ t i fable i m th Lm) i Ii S zel Tream i Blood and Transi lon Curpanov L a 1 Swo R r i L t 1 i th C curpanov L cut (L T curpanov L a 1 Swo R r i L T curpanov L a	456 456 456 447 447
G was R C od Daviror L M Stud Be U ct and tall like with Legical Ref or et R gurgiat in (th Vedical C trit 1 and 1	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Warr's K D cu n f \ n m h ll g (n h t W) f H Surgeal Tre time t U n t Surgeal Tre time t A al Ong n L A al Ong n L A al Ong n L A t L Meet t n \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ 456 456 457 457 458
G was R C od Davisor L M Stud Be Ut an at like with Legical Ref or at R guintain in (th Vedical C int Black R) The Internetical Bit Warson I M Th Taon Surg ally Con i ered in I table 15 a New M th I D gin a d Bit Oper t e Ma spen Cot 171 V F I I I I I M mag litholaps y 440 Cut 171 V F I I I I I I M mag litholaps y 440 Con tail Organs Matchas P Test ul r Craft in Nam I and in Vin Cot 171 V F I I I I I I I I I I I I I I I I I I	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Warry R. D. Cu. n. f. 1. mn 11 g. (n. h. tw.) if 11 Surgeal Tree time to Law Thromboyol' is the Lat 1 n. s. Law Throw Thromboyol' is the Law 1 n. s. Law Thromboyol' is the Law	456 456 456 447 447
G has R C and Daviron L.M State the Uct and Isl Me with Leptcast Ref ret 1 Repursion in the Vestical C int 1 Repuision in the Vestical C int 2	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Warr's K D cu n f \ n m i ii g (n h t W i f ii Surgeal Tre time t (n h t W i f ii Surgeal Tre time t A si Onn a Cu ii se t ii surgeal Tre time t A si Onn a Cu ii se t ii lat i us A si Onn a Cu ii se t ii lat i us FANK L Meet in Vacula Okclu Rej ii FINE Ces n chalir S zer L V t i findel in f th L m) Ii S zer L Non Trei Vit g n C n t u n ta Blood and Transf lon PLA \$ D Non Trei Vit g n C n t u n ta COLTRADOR L a I Sows R i J O Imm i f (\$ 456 456 457 457 458
G was R C od Davisor L M Stud Be Ut an at like with Legical Ref or at R guintain in (th Vedical C int Black R) The Internetical Bit Warson I M Th Taon Surg ally Con i ered in I table 15 a New M th I D gin a d Bit Oper t e Ma spen Cot 171 V F I I I I I M mag litholaps y 440 Cut 171 V F I I I I I I M mag litholaps y 440 Con tail Organs Matchas P Test ul r Craft in Nam I and in Vin Cot 171 V F I I I I I I I I I I I I I I I I I I	SURGERY OF BLOOD AND LYMPH SYSTEM Blood Vestels Warry R. D. Cu. n. f. 1. mn 11 g. (n. h. tw.) if 11 Surgeal Tree time to Law Thromboyol' is the Lat 1 n. s. Law Throw Thromboyol' is the Law 1 n. s. Law Thromboyol' is the Law	S 456 456 457 457 458

CREIF Laryn eal Pencho dritis Due to Roentge

LEWALD I T Syph | fthe St m th Roentgen Appearan e B f e and Mte Treatme t

Ray Tr tme t

FI STERER H The Surgical T e tment of the \ n
Resectable Duod nat Ulce Resect on of the
St mach t E clude the Ulcer

417

Rr ton J M The Relation h p f Jejunal Ulcert the Use of Unal sorbal 1 Sutures	4 0	Appearan e B f e and Afte Treatme t Moore A B A Loentg I gical St dy of Ben n	417
Fraction J H A N te on the R late e Ments of Oper ton on the R und I ig m ts for Retro ver ion I th Uterus with a Sug stion I r a		Tumors of the Stom ch CLSHWAY B C d MEIFR R J Symptomatol ogy a d R di log cd I li g i Chron c Ap	417
Proced r f Increasing th Scope of Usef In ss of th Al der Adams Operat on	426	pe d citis De Vega Barrera R A Suprapul i c M cess I !	421
1 FITT DUTAILLIS P The Treatm t of Vulvar	4 9	lo ng Roe tg n Treatme't fo Ut ri e I I roma	427
MANDELSTARM A F The Ope agree Tre time t of Inco timence f Unine; the Lemale	432	Roe ten Irrad at in Ce t n Gyn col gical Cond t m	
June A M. A New Type of Casarean Tech ique	439	MACKENZIF W R Roentg gr ; h c P l im try	43 441
DUVERCEY J Perman nt B lateral Iliac Uret r	444	FAILL (d OCIMBY I H Th I co mics of Dos metry in I a! th rapy	
Counstriv A I and I witz J F A New Poc du e frl if ming L tholapa y	446	Dr saver F The C e f the \ 1 of the \ R vs and th G mma R ys of Radium upon	
SINCLAIR M Ch ges i I acture Tr tment	452	Li ing Cell	464
CHARBON TER \ \ \S mple Method f Ma king the II d f the I mura I Its \ \text{Apple c tion in U t ing the Heal ni Neck ith a Sc e}		SFITZ I D th Poentg Rays II e a Local o General Act ?	465
SE CERT L Arternal Embolism f the Limit a d Its Surge 1 T eatin t	454	T Hent lie 7 pes i 1b rmal ty 1mon the D i ts of 1 1 yed Mice	465
Lee W T Th Suggal Treatme t f Burn	459	HICKEY I M d WARTI I A S Roe treno-	403
DELYACY The Tra plentation of Skin Graft u d the Act nof a Current of W in Air	460	I gr I th lone Co ferences WARREN S I ni Whitpelf C II Rounts n I y Into ato I B et n II 21 fth Blood	466
Mo rectr J F A \ w Type of M tt e s I a t l ly \d pted for Us in Ca s f Rectal In n		Stre m as I flu need by VR y Destructs n f	
ti ence	460	If the Cumul to elff et or Summ to of V	
Antiseptic Surgery Treatment of Wounds and Infections		I y I po ure (1 en t \ ying Int vals III Ti I th of Beam f Ii 1R ys in the I 1 g Org im IV I test 1 Lesi ns and	
DELATER Tie Relat n f Lo 1 Immuni ati t		Acute Int ctn I coluced by Rit in a tyof An m is	466
DELATER The Relat is f Lo 1 Immuni ats t Ge eral Imm ity Modern T d ci s t t pl in 1 f ction and Immunits by Proc ss f		Sielisa H I est at n the Liflect of the Lk is upo the Metabel m f Cal ium	400
Local R ction Local V chattin WILLIE D I D LACE C M S 7 F D MCL LALLY C T nd Others D 4!	460	Chin! disilt hpt th T tmnt	4/6
traum it i toute inm y ini t i in		Desiarding V I t t n Aga tR diati n	467
Hand	4°	I as I tspr. Roe to Ray Ulers I pecally The way I Tr tment	417
Anæsthesia		BUMM Roentg n C c manth I male	168
HERTZLER V F Bl t IN phrol tl Ope a		TREAT R F 1 blt s (Deep & Kay Th rapy	468
n ir Local Anaesth	443	1 bltyf \R , D m titi	472
Licknandt A B Liwi D Fthyl O ygen Anæsthesia	463	Radium	
		in the Tre tm nt f M I m and the X k y	
PHYSICO-CHEMICAL METHODS IN SURG	ERY	Upe i pir try ira t	399
Roentgenology		Bont II II The applicat n (Radium) Oper abl r Be i I Cases f Caren m I the	
Dr. Courcy T. L. d. Mariner J. H. V. Kav. Tre time t. f.1 terst t. 1.k. ratit	394	C ni Uten B (Operation	427
KICHA DOOK I I The X L . Mr. + +h	394	Dr stre F Tl La we fth Action fth \ k y a 1th Camm R ys f Rad m up n	
irraim t timpa edili n e	39	H KC	4'4
Nava II M Su pected M t dt Cl call) ag		Traps I E Recent D s lopments : Rail m	
	39	M THE M J C a I CREM! W. On the Ge ral iff t fly su to kad um on Metabol m and T mor (no think P t and the Special Effect on the Total and Fundament	160
in the Tre time t f Mal t T more f th		and T mor (to then the P t and the Special	
the Respirating Trait	233	Lifect on th Testes and Pitutary	150
			•

Misc llaneous CRA GER F B Phy i tl rapy	469	porta ce in th D gnous and Treatment f
MISCELLANEOUS Clinical Entities - General Physiol gical Condition	4	General Bacterial Mycotic and Protozoan Infections LEVE SCY 5 1 An I tra end a Method f r th
ADROCLE F Amblyop a Due to Abuse of Monhol and Notine CALLES N J C Clin in Aural Discharge	393	Early D agnos ! Tubercu os s in th ! Pig 4 ! Surgical Pathology and Diagnosis
FRATE J S A Plea f ra Int most nat Inv stig t mit Otosel ro n I All ed Forms of De f	303	Korzenser t a d Ware. I Th Select e Fixa
Walshe I M k The W rk I bhern gion in the Physi I wol Locture Strew O 1 Abure y I the Hay I ex pluest -	397	Embryons and Neopl tic Cells and Its Im- port n in the 11 gnoss and Traitme t ! C cer 471
Central ke i worthe hiver n Relati to the	397	E perum stal S rgery

4 1

41

412

427

41

450

471

HEATTY C 1 a d Ca we S J Asthmani In lection of the Access ry Nasal S use A Study Based in busy T Cases Williamso (S. The Thyroid My virtus in M n Many r D The Import are of Our ha whole Ther id I he tology in the Control of There d Discase

Butte C F Imprema of th 11 1Ca ts W LTON 1 1 The Chro ic Dyspersias I flore a Watt, M T Tubercul Saling to C aves W 1 Ti R lation of B cks he to Gynecology FROFITCH Chro Son T be cul u Arthrit of th Il pin the lo go Crowth L utis

Kyoy R Sem A pect fth Ca e Pr bl m LOTERELFT A and WELL L. The Select of to Embryon al Neorl to Cills and It Im

Kalsti R W Experimental I we tout kit shi dithe Crescal's mpath ti t th 107 DOTT M An In est to a stothe for two f th I tit it no not The rod Cla ! P t1 The f Their I pe me tal Sug ry and Tring 5 mm ty I Res Its

SPECIO MIC & ICI CKE KS All nlm tal Fact rinth Key ne II giallimia MAUCIAIRE P Test place raft in in male and a Sinn LERITHE A I HA UR Rg erst n I the Dia physes f th Adult Rabb t Mt Rese tu physes f th Mult Rabbt Ut Rese to Experim tal R se ch R gard g the Rôl f th I noste m

Med cal Jur sprudence Indictive for X hav De me title Drain ge Tube Leit 1 th Abd m n

47 472

4 7

446

449

BIBLIOGRAPHY

S rgery of the Head and Neck		Genito Urinary Surgery	
н А	473	tdr nal Krl) a d U eter Bl dder Urethra nd len	486 487
E ₃ E ₄	473 474	Ge ital O ga s	487
\o	474	VI cell eo s	488
No th	475		
Th oat	475	Surgery of the Bones Joints Muscles Tendon	:5
\ ck	475	C lit n of the B e Jonts Mu cle Tendo s	
C		Etc	489
Surgery of the Nervo s System		5 gry fth Bon I t M cle Te Ins Ltc	480
Bran nd It Coring Canial \re	46	I tu e nd Disl cati s	490
Spinal C rd a d Its C en g	4.7	Otl pedes Ge ral	490
Ienph al Ne es	4 7		
5 mpathet c \ ves M scella us	477	Surgery of the Bl od and Lymph Syst ms	
	4//	Blood V el	40
Surgery of the Chest		Blood a d Tran fust	491
Chest W II d Bre t	47	Lyphie lad Gland	491
Tra hea Lug nd Pl a	4.7	S rg cal Techn que	
H n dF card m	478		
Esoph gu and M 1 str m	478	Oprtie Sugey ad Thuque Potpatie	
Miscell enus	478	Treatm t A trept c Surg Teatm at of Wood ni	431
Sur e y of the Abdomen		Infet n	**
Abd minal W II nd P nt eum		Anasth a	49
G to-I te ti Tr ct	48	Sug cal In trum nt and App at s	40
Li er Gall Bladd r Pan ea a d Spl en	490		
M scella eou	48	Physico Chem cal Methods in Surgery	
Gynec logy		Loe the ol sy	492
Ut ru		I d m	493
Adnexi din Uin Cdt	48	ALC II HEOR	473
Extern 1G nt la	45	Miscellaneous	
Misc flanco	483	(l 1 lF tn -G e l lh lg l Condt	
	4-7	Ge ral B cternal Mycots and I oto oan I fo	493
Obstetr cs		t n	
Pr gnancy and Its C mpl t n	493	I) ctl Glasd	403 494
late and It Complete o	484	Su gi al lath logy and Dagn:	404
Pu menum and Its C melc to	4 ⁸ 5	Lyp rim nt 18 g ry	404
V ellan o s	45	If p tal Med Ed cat o nd H story	494
- County V 3	485	vied cal J n prud	404

EDITOR'S COMMENT

TT is often difficult for the editors to choose from the abundance of material that pases before them from month to month the orig inal articles that will prove most interesting and helpful to the majority of our readers. With a chentèle that embraces not only the English speaking nations of the world but also the far flung domains of six continents a clientele whose chief need and interests we can at times only gues at from the problems and difficulties that confront us in our own domain we must not infrequently in our choice fall short of the expectations and desires of our reader The com ments that reach us from time to time have been so uniformly favorable that we can conclude only that our readers are bra ely concealing their di appointments and ending us only their compli mentary speeches. We urge them however not to do so but to let us know in what ways the ABSTRACT can more nearly artain its purpose-to keep its readers in touch vith all that I new and worth while in surgical literature

The current number of the ABSTRACT contains an unusually large number of brief abstracts the majority of them of very practical interest Among the longer abstracts a number deserve particular mention. Dott's investigation of the function of the pituitary and thyroid gland (p. 407) and Marine's emphasi on the importance of a knowledge of the rold phe lology in the control of the roid disease (p 401) form important con tributions to the subject of thyroid surgers Bruening s report of the results of operative treat ment in a case of angina pectoris (p 408) brings additional data for the new chapter that i being s ritten on the surgery of the sympathetic sas Seelig and Chouke's interesting experi mental study on inguinal hernia (p 41) sugmests some ha to underlying errors in our present con ception of the proper method if hermal repair

Five particularly interesting abstravts dealing with different phases of gastin and diooderal pathology will be found in this month issue of the Abstract Finisterer's radical method of treating non re-ectable ulcer of the dioodenim (9-40) will be noted with sepacial interest be cause of the author's recent viset to America Nalamura's afocussion of focal infection as the cluef etiological factor in gastric ulcer (p-443) and Eusterman's report of a series of case of

recurrent ulcer of the stomach and duodenum (p 410) add further strength to the position of those who ascribe to infection a primary rôle in the production of peptic ulcer McCreen's report of a series of cases of acute perforation of gastre ulcer from Belleviu Ho pital New York (p 415) and Walton a discussion of chronic dissepsation of women (p 412) complete this interesting group of abstracts

DOWING S argument for the pre-onerative or supplication of radium in operative or borderline cases of carcinoma of the cer (p. 426) will appeal to every surgeon as exemplifying the most effective method at pre-ent as aliable for combating the most dreddel form of mal galanci. Vlason and botters analysis of 400 ca so of extra uterine pregnancy will interest both the gynecology 1 and the general surgeon

The sympo ium on sterility presented by Spalding Pettit Anderson Lynch Patunger and Loomis at a recent meeting of the Caluornia State Vielical Society (p. 428) indicates the wide spread interest and careful study that are beindevoted to this perpletung problem.

Two abstracts of particular interest to the or thopedic surgeon are Lenche and Hours et perimental study of the function of the perios term based on a number of resections of the diaphass of the adult rabbit (p. 449) and Hibbs report of hith inne cases of scolios: treated by the fusion operation (p. 452). Both the orthopedic and the general surgeon will appreciate the period of the fusion operation of the period surgeon of the fusion of the fusio

member of other untressing an helpful abstract can be not mentioned Lees of ucusation on the treatment of lums (p. 450) sets forth some rational and non patented iders in this frequently. It used subject. Graves and Davidolf experimental stuly on the regurgation of vested contents (p. 445) establi bes definitely the possibility of infection a cending from the bladder to the ureters and hidneys. Warren and Whipple septemental study of bacterial invasion a fluenced by Vray destruction of the mucosa of the intestine (p. 466) and another interesting chapter to their many original contribution on the physiology of the gastro-intestinal tract.

INTERNATIONAL ABSTRACT OF SURGERY

MAY 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

Haden R I. Electi e Locali ation in the Eve of Bacteria from Infected Teeth 1 h I + Med 9 3 XX 1 828

An etiological relationship between chronic foci of infection and systemic disease having been estab li hed the selective affinity of certain bacteria must be demonstrated Rosenow has shown that strep tococci freshly i olated from infected tissue tend to reproduce in animal the lesion from whi h the patient suffered Others working along similar lines but with different techniques bave failed to arrive at the same conclusions

Haden injected intravenously into rabbits bacteria which he obtaited from the root t p or pulp of teeth of fifteen patients suffering vith eye infections Of the sixty six animals receiving the inject ons 68 2 per cent develope l eve le on Of 160 rabbit injected with cultu es from the teeth of persons with no systemic disease or with diseases other than infect on of the eye only 148 per cent de eloped eve lesions In both gr ups or ans were in olved which were not involved in the patients. The h h per centage of these rabbits shoving eve les ons vould tend to prove that select ve affinity is a probability VI IL WASCO T M D

Antid phthe ic Serum in Ocular Infection A Clinical and Expe imental Study of Ninety One Cases J A W is lxxx 181

keys clinical e pe iences and labor tory experi ments with antidiphtheria serum in comb ting pneu mococcic and staphylococcic infectio of the re facti e media of the eye add fu the proof of the efficacy of non specific treatment. In forty eight cases of hypopyon keratit s the co nea was incised and cauterized with carbolic cid follo ed by alcohol From 1 000 to 5 000 units of antidiphtheria serum were then injected and in from twenty four to forty eight hours this was epented. The hypo

pyon was reduced or disappeared the pain and injection vere relieved and vision was improved. In eighteen cases of infection following perforation the pain vas relieved and the anterior sament cleared This occurred also in eleven cases of pan onhthalmitis but the globe became disintegrated. In twelve ca es of ulcu serpens cauterization followed by the injection of serum gave good results

The author is carrying out a series of experiments to determine (1) the effect of previously injected immuniting doses for prophylaxis (2) the relative value of normal horse serum and antid ohtheria serum and (3) the maximum and minimum dosage in relation to the time and character of the infection VERGIL WESTCOTT M D

Adregué E Amblyopia Due to Abuse of Alcohol and N cotine (L ampl op a al holic me ti ica bus) Se and 193 x 320

In the Argentine Kepublic acute alcohol nicotine intoucation causing amblyopia and amaurosis is rare but the chronic condition is common Of 206 cases of affections of the optic nerve forty eight vere traced to the latter It usually occurs in men between 35 and 50 years of a e who smoke daily four or five cigars of inferior quality The intoxica t on gen rally results in a paracentral scotoma W A BRENNAN

Butle T II Modern Optical Methods in the Examination of the Eye B & M J 9 4 1 8

The author states that with a self illuminating ophth lmoscope red free light Gullstrand's oph thal noscope for demo s ration and stereoscopic study and Gullstrand's slit lamp with Czapski's microscope more accurate and earlier diagnoses of eye diseases can be made and the prognosis may be improved be au e treatment can be begun from twenty four to forty eight hours sooner true est ectally in ca es of acute corneal and uscal I sions and sympathetic ophthalmia

Butler T II Mus le Recession for Strabis mus Poc Poy S Md Lond 1944 T 1 Sect Onteh 6

Butler has slightly mod fiell the technique de scribed by Jameson in the Ircl res f Oblit almol ogy for September 1032. In short h divides the ten lon at its insertion and sutu es it several milit meters back of its normal 1 sertion. On occasion he operates all o upon the oppoing rectu of the same eye usually doing the Worth advance ment operation. He states that previous to the use of the new method his cases occasionally showed dive gence and loss of converging po er and not infrequently and mplete correction for the convergence Recession has be a far more successful there have been very few failures and only in one case na there loss of converging power Squints of less than 25 d grees ha e b en cured by recess on alone and the ren a nder by means of the combination with advancement or tucking. The age of choice for the operation is 8 years previou to this time the nationt is t eated for from one to thee year for full correct tion of the hyperm teopie Buther claims the tif the quant h s be n pr nt for several years th r is of nece to an anatomical chang in the muscl s he has often fou if the externathin and ribbon like

and the internu stout and teht The di cussion of this paper as nteresti e as the paper itself. Not all of Butler's hea e s agreed with him Worth di agreed with regard to the anatomical finding and stated that the age of 7 or 8 years is the maximum for the ope at o claimed that all tenotomies are ba i some wor e than other that tendon recession s a tenotomy and that accuracy r sulting in fusion r no de lation his th micro test ca mot be obtained by this ope ation HARMON stated that h failed to see that the meth od ad oc ted was safer than an ounary te ot omy which mo t outth Imologists rarely pe fo m CRIFFITH a reed with Butler but maintained that the operatio is difficult Thomas D AL EN M D

Cunningham J F Per i tent Swelling of the Conjuntiva Po Ry S Md Lod 94 1 4 t Orhth

The c se eported was that of a man 4 ye rs of The general ex m nat on was negati e except to slight enla gement of the ubmaxillary gl nd The conjunctival swelling wa of three years dura tion and in of ed both eyes A ection shot ed th t the bulk of the tissue w s mad up flymphocy tes

In the dis ussion of the nature of the c ndition lymphoma chro c edem due to obstruction f drainage in the b ck of the orb t and bra ny TRUSDALE MD e suggested scle it s

De Courcy T L and Math JH Teatm tof Inte titl I Keratiti B i W J

In syphilit conterst to 11 rat tis wak loses of the rays c t h tth ea le stage of nfiltr tion nt th de per cor eul jer

The earlier the stage of the d cas at which this tre tment is begun the more rapid the improvement and the more satisfactory the results

The sounger the patient the better the reaction to the \ rase

The most strik ng result of the treatment is the relief of pain photophobia and lachrymation. The acute stage is shortened by checking of the infiltra tion and vascularization

The opacities in soung ubjects are undoubtedly

benefited by \ ray t eatment

In none of the cases was any damage done to the eye or the surrounding tissues and none of the patients complained of inconvenience during the treatment

Only small doses of the \r vs are n ces ary

The \ ray should be used as an id to l c l antisyphil's and gener I treatment but should not be employed as a substitute for them

The benefit de ived from small do sof the \r vs in interstitial keratitis justifi s th ir t ial in cert in chronic ases of eye di ease in which tr atment has been disappo nting such as the paintul blind glaucomatous ey and scler us of the aged 4 safe and more stabilized technique such as that here ue scribed holds out hor f better esults in many eye cond tions chronic and acute

THEM S D ALL N M D

Sinclal A II II Holme G Herburn M Har m n N B and Others D scussion n the Clinical S gnificance of S otometry B_I ! W J 1023 258

Styclair stat d that the delic to t sts made pos s ble by the general doption of small targets allow bettere sestudy a dithat although the hid es with rg rd to the fields of 1 ion and the r a latio sar of g cat importa ce they must al ays be onsidered with other clinical findings. In early glaucoma absolute del cts re often p eceded by w der elative fa lu e

HOLKES emphasiz d the numerou factors on hich a curate results it scotom try depend (1) The nat ent must u derstand full what i required of him (2) The te is mu t be adjust d to th pati nt intellige ce (3) The pat ent attention mu t not b tir 1 be too p olonged ami at on or d tract d by a estion or unnecessary mo ements or sounds (4) The rate of moveme t of the tar get sh uld b regular and un form (5) The ex m nr must he vyg tptince obtain the co-oper ton f th patient nd a o d suge ting ponse (6) The arpa atus mu t be a simple as po bl nd perm t s large number of epe tel

obse tim spo bl w thout cau ngit g c HEPBLEN t t d that ther o sider ble ev d nce that the cot mat f nd n con e ti n with de e of the hold pont set n ly to a t the th r that th b niches i th poster or cil ry e sel o stitut a term n l va ular system which s subject to the wealn's es the ec mmon to

siha stem noth pat fth b dv

HARMAN state I that the results obtained by pasing the target from the sighte I to the blin I area are not correct and that all of hthalmologist should agree to york from a known blin I area to the sighte I

Sucharded not agree with the

Six Joins I assons called attention to the fact that I per and others have pre-ented exclered, indicating that although there i a definite matthe matrical relation hip but een the intensity of the stimulus and the size of the area stimulated in the macular at a there is no such imple relationship for stimula affection to the property of the retina

I fee, ARD di cus e l'thé fiell in neurotic jer in an l'the effect of sugge tion in such cases bot i arné i that a change should never be regar led as functional until all possibility of an actual lesson haben exclude!

Tri und Dilen Wilder

Falk F. L. Retrobulbar Neuritis Ass crited With Disea s of the Nasil Accessory Sinus's N 1 kM J = M d h c 923 x 624

The suthor cill attention to the act the there; a let t connection b t e n the deeper nil me resenous ocular di turbances and I scases o the nasri acre son sinuse. He repe is t o crises of r troubillar neurit due to sinus di case. In both there has a central scotoma with contraction of the 13 ual fields.

In the first case the on t of the con lit n as rap 1 on 1 vision in the affect! e was r du 1 to light per (1 to N extendation as negative experted points). A extinuation as negative experience desiration of the 1 tim. The sinue were opered but no gro-pithologial change were opered but no gro-pithologial change were considered through the core of the control of the core of the co

di case

The second cas ho elgradual tual hturbances hich have right on open to ab obtain bit hines. A verr privou t examination the left even by the transfer of the t

the etcnille ilm il o the nuc (IB) MD

EAR

Smith S MacC Otitic Cholesteat mata

Chol-steat mat occur met fequent in the tempe I bene but have ben noted in the more course tructures. The serve from that fasmall pear to that of a almut. Their hape I pen I when the hape of the at

In some cases they may remain in the temporal bone for years without cauling symptoms other than occasional attacks of yerigo and headache

For permisent ruled their must be removed a thoroughly as possible. After their removal the treatment should be directed toward stopping the dicharge and patholo scal proliferation. Skin grifting, as practiced by Dench on the bit is of Ball lance method is sems to give a satisfactor re ulis. Those not skilled in this pocadore find that packing the ait vist small strip of gause thoroughly moistened with small strip of gause thoroughly moistened with a 11 000 or 11 500 olution of and rill in often prevents returned. The packing should be rener of all first every day and the never third or fourth day until all evidence of discharge or proliferation has a space?

The author reports an unusual and intere ting case of cholesteatoma, which was about the 17t of a small pour James C. Bry well, M.D.

Callison J G Chronic Aural Discharge I);

The author I see see the puthology of chroniced having care as recealed by the rail test mustod op r tion. If dras as harp distinction between a line I and an anatomical cure. V lineal cure implet to the distinction of the condition of bounding the distinction of the condition of the condition

The Irugs of in the treatment of aural discharge include the employed for the destruction of granulation to use and those used to control the infection and as it in the elimination of the bicterial florathat is the iruge used by the ofology to in his office that is the iruge used by the office to the include that is the iruge used by the other and in the hand of the ratherist and those placed in the hand of the

pati nt as ear drop

Cs sof sural discharge tre divided into two class c tho with a heavy mo oid charge and those sith a frankly puralent hischarge. In the treatment of the fine relian is placed cheful woon suction. In the letter, if er nitrate or trichloracetic act is might like bestow granulations and phonol time ture foo time mercurochy me 220 or neutral acm fit is are u.l.fr their anti optic in lipentrating properties. I ractically all of these drugs are used in all the chickel. The hantaces of one over the though a dependent of crure on the local phonomy in the contraction.

Clin nis of the opin on that with patience and it is ene on the part of the patient and physician nat lute cure of ar as the aural u charge; con rine; and obtained in at last offerent of the

es and that the hearing will improve after the 1
h rge ha been cur i | R II the pik M I)

Jones C C Acute Supporative Otitis Media in Infants J Iona St te M Sec 1923 x

Topes discusses the anatomy etiological factors symptoms physical signs diagnosis prophylaxis and treatment of acute suppurative olitis media in infants The points chiefly emphasized are the following

1 Acute otitis media occurs more frequently in infants than is generally believed

The primary etiological factors are lowered constitutional states with summative intranasal infection 3 The cause must receive a leguate treatment if

conservative treatment of the oural condition is to he effective 4 Symptoms and signs of acute otitis are vari

able. There is a slow subacute type in which the predominating symptoms are gastro intestinal

5 The diagnosis depends entirely upon direct examination of the drum membrane. In doubtful cases myringotomy is warranted

6 In infants considerable osteitis may not cause superficial signs because the antrum is large and the aditus is wide

The object of a mastordectoms is to p eserve not only life but also th function of the ear

8 A healed mastord scar s preferable to a chro nic discharging ear defective h aring or antiety concerning the course of the case

Orro M. Rorr M.D. A Plea for an International Inv s Fraser J S

tleation int. Otosclerosis and Allied Forms of Dainess Las g ope 1923 Fraser reviews our present knowledge of the etc ology pathology diagnosis and treatment of oto sclerosis and advocates a study of this impo tant

subject by an international group. He raises the following questions

1 Is otosclero 1 a pathologic 1 entity? 2 Is it congenital? I te er pe ent n the laby rinth capsule of the fetu or infant?

3 Is otosclerosis an inflammatory affect on and does it follow ofitis media? Can it be distin uished sharply from mid ile ear atarth?

4 Is otoscleros s a d generative or wasting disea e2

5 Is the e any connection bet veen disorders of the endocrane glands and otosclerosus

6 What is the cause of deafness in otos lero s since in e rly cases at least there is no bony nky losis of the stapes?

7 What is the conne t on if any between otonerve deafness and congenital daf clerosi mutism?

8 How often is the vestibular apparatus in volved in otoscleros s and why is there giddiness in one case and rot in another?

Fraser sug ests that the investigation be organ iz d according to the following plan

Microscopi al hemical 1 Laboratory work experiment I

2 Clinical (1) Statistical as regards age sex heredity distribution association with other diseases (2) symptoms clinical examination diagnosis (3) treatment medicinal ductless gland therapy vac cines local non-operative procedures operation

The two parts of the investigation should of course be coordinated e g the clinical e amination

and postmortem microscopical examination The article contains three case reports and fifteen photomicrographs FRA KLIN P SCRUSTER M D

Richard n J J Th \ Ray as an Adjusant in the Treatment of Impaired He ring I treat J M d & S # 19 3 XX 510

On the basis of an experience with more than 600 cases Richardson employs three steps in the treat ment of impaired hearing

The usual otological procedures and cated by the condition

Sclerolytic 1 ray treatment to destroy the ad untitious tissue in the nasopharyny and e pe cially in Ro enmueller's tossa viz y ma So ky a tube skin distance of 1, n a 1 mm aluminum flt r time nine minute For the application of this dose the pat ent is placed ventrally upon the \ ray table with his he d first inchned to the right. All but he head s then covered with a leaded leather protect r Ov r hi head is placed a square of lead foil with an avoid opening about by 3 in 10 diam ater which comes over the external meatur Follow ing the exposure of the right car the head is turned to the left and the left car is similarly treated. The e posures are ret ated not oftener than every two weeks ar I may be given for st or e ght s ttings

3 Stimulativ \r v treatment v h ch deals 1th the dulling of the recept on the transmission and the registration f the sound stimul. This is best dit buted over the haring nlassociated cent is and in the region of the audit ry nerve. T isl and error h e sh the f ll wing do to be the most efficacious 8 stab lized ma 50 k tube 5k n dis tance 24 in a filt required nt to 1 mm of al m mum time t elve sec nd

The i e is dit illusted or the entire head by die ting the en rgy through four portal of entry For myen enc the c ntraitarg t may be taken as the ell turc With this a a guide the por t 1 of atry become

On the left behind the ma to d the central ray pa sing in the diriction of line ioning the

mastord tip nd the s !! tur 1 a 2 Ab e the central ray pa ng nto the skull

in the direct o of all ne ; ining the ante i r fontanel and the sella turcica 3 On the right behind the m stord as f r the

left s de 4 Behind the central ray pasing aling a line

th th sella to nine the occ pital protuber nce Richa dson b s not d ma ked improv ment fol

lowing this pro edu e in cases that ord nar ly would be regarded as hopeless

The article is concluded with the following observations

1 The original pathology does not govern the efficacy of the treatment

2 Improvement when it occurs is either aston ishingly immediate or becomes apparent only after several treatments

3 Improvement is at times followed by relapse but not to the low level of the original deafness

The gain is apparently progressive
4 Improvement is usually manifested first in
increa ed power to interpret the conversational
voice and next in the ability to hear music

5 The most striking subjective improvement 1 the very general disappearance of tinnitus aurium

6 Present records show improvement in 60 per cent of cases treated

7 The treatment described 1 entirely harmless
Office M. Rott M.D.

Hays H M Suspected Mastolditis Clinical Diagnosis with Spec al Reference to the Interpretation of the \ Ray Pictures L 31 gos p 1973 xxxx 924

In the clinical diagnosis of suspected mastorditis the most significant signs and symptoms in the order

of their importance are as follows

The character of the di charge and the type of infecting organi m

2 Narrowin of the canal vall v hich cannot be accounted for by any acute symptoms within the canal itself

3 I ulsation of the opening in the drum shot ing retention

4 Irolapse of the drum with sagging of the

5 The amount of retained secretions that can be climinated from the mid lie ea by suction

6 The general physical condition of the potent as indicated by the temperature blood picture etc and the presence or absence of head che and maluse.

7 The interpretation of the X ray picture. It is important that the pentgen grams be taken

by a well traine I roentgenologist

The X ray is often the deciding f for as to whether of rative interference is no essay but its findings are of value only when they are considere in conjunction with the chical symptoms. The author report three c.ses.

IRAN UNI SCHLTR NID

Was he F M R Ti Work of Sterrington on the
Physiology f Posture J L v g l \(\sigma \) Otol

923 x 642

To understand the research of Magnu and de Meijn on I brinthine function t sin e ary to have a definite cone ption of the meaning of nuscle tone

Sr Charles Sherrington showed that the dicere brat animal (one in hich are nise tion of the brain stem in the region of the tentor um has be nido e) can maintain a standing posture through the action of the anti-gravity group of muscles namely the extensors of the limbs neck and back and the elevators of the Jaws and tail. This phenomenon is called reflex standing. Muscle tone is defined as the basis the ran material of nosture.

The mannetanance of tone is dependent upon integrity of the afferent nerve supply of the muscles but tone can be influenced or modified by impulses an ing elsewhere in deep structures—muscles ten dons or joints Other tone regulating influences originate in the labyrinths and in the muscles of the limbs.

NOSE

Ste n O J A Survey of the Hay Fever Question A C litical Review of the Situation Relative to the Etiology and Treatment in Ot ! R! tol & Lav g l 923 xx 214

The evidence at hand indicates that has fever is a di order of sensitization. The cause of this sensitization has not yet, been definitely determined but is

probably a change in the bo is fluids

Hay fever symptoms may be due to an anaphylac
tic reaction of a reflex action. In persons v ho are

sensitive local external irritants cause the symptoms of hyperasthetic rhinitis In a small number of cases of hay fever the u e of

specific pollen solution vill give relief. Immunity is usually temporary therefore the treatment must be repeated as often as necessary.

The percentage of cures resulting from the use of pollon va cines is no greater than that following other methods. Tre dom from symptoms is obtained most fre

quently from nerve blocking with alcohol. This treatment has the ad le l advantage that it is less expensive than the others and requires less time.

JAMES C BRANKELL VI D

Heatly C A and Crowe S J Asthma and In f tions of the Accessory Nasal S nt ses A Study Based on Sixty Two Cases B Il J h s Hopk as Ho p Balt 1923 t. 410

Because it is generally conceded that pathological or nitions in the nose and sinuses hear some relation hip to clanical asthma the authorithm condensation of the condensation of the state of sixt two class to determine (1) the value of operations on the nose and accessory sinuses as part of a therapeutic program in the cises of asthmatic patients presenting pathological conditions in that region and (2) the type of operation (whether simple or is I call) which is most beneficial. Their conclusions are as follows:

r Operations should not be performed judis criminately on the nose and accessory nasal sinuses of asthmatics

2 Operations should be reformed only on proper and cations and should be radical in the sense that their purpose should be to eradicate all region all infect on Jones C. C.: Acute Suppurative Oct

Jones discu ses the anatomy etiolog symptoms physical signs diagnos a and treatment of acute suppurative of infants. The points chiefly emphasized lowing.

1 Acute otitis me ha occurs more f infants than is generally behaved

2 The primary etiological factors constitutional states will suppurati

3 The cause must receive adequate conservati e treatment of the aural co-

4 Symptoms and signs of acute off able. There is a slow subscute type I pre lominating symptoms are gastro-int. The disamous derends entire!

examinate n of the drum membrane

6 In inf nts consiler ble esteiti m superf sal signs becau e the antrum is l a litus; wile

The object of a mant i lecture is a not only life that also the function of it.

8. Whe let m stool scar is preferate nice discharging ear defects be ring concerning the curse of the case.

Other Management of the case of the case of the case of the case.

Fra r 3 5 A Plea for an Internat illati n into Ot referoil and Alli Dealn s I4 r r 9 s

fras rr wou pese t kno lely okas jath ig a gness and treat seler i and loc is a stulf the subject has a ternitional gr []. I follo ing i e ti n

r I to the was thing I ri 2 Is steepenth I at rye Indianth youl of the fetuer of ne 3 Is of which in sufferent valoes thought of the in the Court is

sharply from milling r atarrh

4 is of 15 it will a ligenerative

s lett s conn ten betweet the entwine glint and to less o White the guest left f sin is the accast lat there is st loss that the notion if any

scierosi ne ve le fies ail n mutis i 8 How fien is the vestilul r ; of el i to clerosis and i by is ther

one case and not in another?

I rase suggests that the inv tigat
is fac or it, to the following lan
I lat at ry wo k his rocit

exp rimental

tumor in the brain (precuneus) which microscopical ly proved to be a pleuform alveolar sarcoma (\au werk) and was looked upon as a metastasis of the similarly constructe I tumor of the 124

The author considers the case one of streomatous epulis. He believes that the ordinary epuli may occasionally become mal ginant an I metastasize and suggests that perhap even the common epulis may not be the sarcoma like benign growth described in the testbook.

THROAT

Caldera The Biological Treatment of Sarcoma of the Upper Respiratory P sages (Tait m t it) que des mes d's pemèr es ie i h t t del y t 1 10 1 v 10

Calleta sevens the various biological methods suggested for the heratiment of servoim. We to the suggested for the heratiment of servoim. We to the have been unsuccess ful but in a case trevele tayoftess of callet no obtained acute following treat ment by Citella method. Facouraged by this first waters her received the test of the total and one case of servoim a of the ton il and one case of servoim a of the ton il and one case of servoim a of the ton il and one case of servoim a of the results he was with autos, enough vaccine. The results he was with autos, enough the results have the wast a first, annotation perhaps recovery test servoim and the servoim and t

Callera suggests that the temporary improvement may have been due to the action of thest epitococci the late power of which has been reported

II I like

Cvil Autoraccination R dium and the X Ray in the Teatment of M lignant T mors of the Upper Respiratory Tract Aut to rimet o Xin last middle is rimet o Xin last middle is rimet o pat last middle id last galax visos

Cavello reports the following f cases of sare m

treated with aut genou accine

t Melanotic sarcoma of the i e freatm nt stoppe il ecause of the formati n of n il c s in the area freate!

2 Round cell sarcoma of the ne To trat

3 (innt cell saccoma of the right tingle Three injects using en Death from mening to 4 millir und cell sar oma fithe tingle live facet, use on Death from the tingle live

injecti us gi en Death from the mbo f th pul monars arters 5 Melanotic sarcoma of the rhin ; h r nx 5

injet n foll wellow pul praitth turn rand

The nature of not harmful result of transment with autoenous vaccine in the sect is the auther one of the charmful result in the superior and the first part is the superior of the first part in the superior of the first part is the superior of the first part in the superior of th

W AB

Collet and Rebattu The Intracranial Propagation of Pharyngeal Turn rs (feut urt | r | g t) ntr r cn e les turn urt | ph rynx) f / f i del y f i 1923 v) 94

The author report two cases. The first was a creof tumor of the phare ngeal vault which cau ed head
ache cervical a Jenoj ribly ocular ving toms on the
right side ploss parabass trigenimal neuraligm and
sudden death. Vutops received a tumor of the
right balf of the misopharyn v with intracrinal
massion in the antenor part of the mill the credit

The second ca e was a case of epithelial tumor of the hipopharm vi hich began in the ceri ical glan! on the right is le. Rhinosoq vi revelled a tumor of the hipopharm vi covering the larvingeal vestil ule Deep roentgenotherapi was given but vi as follo ed by recurrence in lidicath. Autopsis reveile la tumor filling thin right half of the pharmar with intracranial invasion on the left side through the middle cerebral for the pharmar was not as the control of the pharmar with middle cerebral for the pharmar was not in the first side through the middle cerebral for the pharmar with middle cerebral for the pharmar with middle cerebral for the pharmar with middle cerebral for the pharmar was not the pharmar with middle cerebral for the pharmar was not the pharmar when the pharmar was not the pharmar with the pharmar was not the pharmar with the pharmar was not the pharmar with the pharmar was not the pharmar was not the pharmar was not the pharmar with the pharmar was not the pharmar was not the pharmar was not to the pharmar was not t

In both of the c ses the gland were involved early In neither case v as there propagation to the nasal

fo sæn r to the pters goma ullars fo a

In the first in tance microscopic examination
howed th tumor to le a round cell surcoma and
in the second an pathela ma

The authors is cut she mole of intracrantal many in far night tumors. The cross reported show a fine the control of the proposed of the propos

Smith S MacC Indications For and Contra Indication To Ton III ctomy in Adult The

Remo I fith ton Is do an tal hys relieve the adition in his that removal was loome. Frob bill not a ports of care spath logical ton ils are but on fivan u filter intributing t ward a general tat filter.

The trial hall be arefully examined note being a thin of the clos and size a tow bother they at his tegelor extend bound the markin of the fuller in late to therefore pusor casion material many lets from the right by pressure

halth that reet alls

Ih t n il hi h i not a utels inflame I but con

t n fr pu is undoul tedly a menace to health h ther til large or small and therefore should be r no d

The jest need carcous material in the ton llar yit may remay not lether can of a general six it mill tulline. Such roat roal; usually found a varvin amount in the ton its of a fulls and often in the offer one whose hithis apparent gool

In I large or small with are submerged and practically covered by the fillers are more apt to become the site of chronic inforting than the visible medianton illustrates of freely at 1

By rea on of their are alone unusually large 1 n also may interfer to a me eat nt with an 11 ing learthing and clear appeals. The remo al 1 u h to n its a justified even though the shoe negative I resid not of infections.

In the cases of i phthen come sits been fourd that night culture are usually it reduthin a

slort tm after fon illertom)

While the ad I ability of remo ing the ton il in cases of cer ic I ademit is d I table loss laty in gologith all ocate the rem val. I for I ton ils seninear of tuber uf u ad nit s

Interest of person where utility elefattacks of the little or question at the trails

isin leated are s nti emea ic

Such greet I on I ton a rt umater the 1 year eace effattive with, etc m 1 Li mp ta leat t the also super note to min to it more remote facilities to make the more facilities to the total min to the total min to the available to the available to the test Miliscoling to make the uptrate of the total min contraint feducal the first formulation contraint feducal the first formulation of the minimum to the minimum that the first formulation of the minimum to the minimum that the minimum to the minimum that the minimum to the minimum that the minimum to the min

to quarter the second s

Myerson M t B i hoscopic Observati n in the Lough Reflex in Ton Illecton yield e.C. n eral Anneth in La p 14 f

In Miser in primate gifted title is under took fitted a unification for a reason and it for the fitted a unified uni

Mixton study do no xes to x rean the few queries of no hard the fast is the stable is production to a the large alirahility and the few queries and in the few queries are the stable in a methical and the few north Alakantra at we want of the ten allection. The uries foo shows most darm, the intains in with a sail large the person when the few a most dealership per toon when the few and the allecting per toon when the few and the allecting per and the control of the few and the few and the control of the few and th

It was fou i th t the j titet t cough d b can of ext we core at ation of the eth r h c use of a pre exting catarrhal condition of the tr h bron chial tree or because of the contact of an in trumer, with the largus

Therefore it as pears that cough occurring during at 1 milect ma performed under general anothera is not a not mall phenom non but is dependen upon either increased initials (s) of the large to trachesbronchial much sai or an increase in their costs of the stimulus which acit ethe cough ref. t

The author explains the new occurred election in it is that the pharme galenter that the there is no entret with the large extraction but no half tree is not installed.

The f ll ing conclus on are dra n

I cents six of too fatients in me in the least alrest was fre enthall or finthetracked bronchial tree

bronchial tree
Of the twent 1 ar cases in which the tracked
is had tree wa clean cough occurred daire the

per ti a in e ghteen

s The largaite adments or in crethe octors
of the haben the harping all on the terms
of at a thirth the large teach of the nebus
of the large teach of the harping to

fil r pri rytr et lie flegaterteough ben lightl and their l s Bl. leas loth murus and la forms a

mixtu which I want arrivated enfationally to

nent will tim uncertain anesticus

I K II troots 311

NECK

Claims of P lympt anglete boccos of the better in limits to the limiters | 5 to mil in the limiters |

The typ alloc t not this above its in the forter trace of the neck behalf the mad uncles fith a tunder the miller factor of the first subject to the first fitted for the first fitted f

the 1 is less Bencapulated and its less not not the most head of the most hund and the justice in the first not the justice in the test of the test not the justice in the first not not the justice in t

Rett 1 A The Operative Correction of the Bill to all Medium 1 boilt in of the book Cord (1) age to be a key to all bett events to them I forced tell 2) Zi b f Lay 1 Kb of f 4 t 1 kg 1 Kb of

I ros ding it mith assumption that the med are position if the voc I cords in po trius paids is is pro' ced by shortening of the adductors the author freeness a new operative method. A lary ngofissure is done frat. Uter the exposure of the arvienoil cardia e from with n the lary ns. the in errions of the a lixetors are divided and the ary tenoid cardiage is fared in such a position by tamponade that the

word cord assumes the position of abduction. The operation has proved succe stud in one case. The author subjects the methods also cated by others to sharp criticism. The illustrations used to exclusine test are very instructive. From (L)

Rosenthal G. Subdivisions of Tuberculous Laryngiti its Treatment by Trache fi tulization (Led m ml m t d la legague tul ul se son ti que pelatraché fitulisation). It he ter sid d'en just legague xu sy

In Rosenthila opinion tutercul u livrogiu in which to teon if ref a clinical entity. In it is full be subdivised into its variou components some of which are more an enable to treatment than others. He there for surgis elser study of cases of bacterial application, the control surginor and inferior charge that the surginor and inferior charge that the surginor and inferior charge that the profit has been profit to the control of the surginor and the surginor and the surginor and the surginor and the surginor between the surginor in the surginor and the surginor between the surginor and the surginor is the surginor and the surgi

m nt will gra Jually be letermin i Many cases of tubercul us 1 r ng t sul 1 be cure 1 if gisen early treatment

boenhald to in letal the different paying the let 18 ut 19 u

Mitriwoat chafth wig tte relier Creinfal t mil mini il 2 1 trens of the threat 1 En that welle in u 2 1 It atto lattige at gith na t 12 urter reter 1 f c ii i t u .: f f 1 1 and the 1 1 11a literat el er I w II ro rh li ii × * 115111 tte er! ma tit th 1 r twel It s + 1 the ob tt tte wik lott t £7) ** tet it te tribit to

In conclusion Greaf states that Marschick found by aline cartilage very sensitive to the X-ray W. A. Bressay

Williamson G S The Thyrold Apparatus in Man Lo 1 19 3 ccv 1337

On the basis of 2000 autopsies the author de scribes the gross and microscopic anatomy and phy jology of the thyroid parathyroid and thymus glands and concludes that these structures are intimately relate I anatomicall physiolo ically and rathologically constituting an apparatus with a pecific function. The thyroid gland is the main organ. The parathyroid, which are located in the course of the outil w act in a neurolymphatic pacity to measure the off ciency of the thyroid and through the sympathetic nervous sy tem to a just the thyroid activity to the needs of the body. The thymus 1 a reservoir for the effluent. This it stores a cording to its nature either as fat or in lympho hi h are probably manufactured and vtes

al other in stars and amount of the limphextes of the carring of introgen funder integer principles as in he carring of introgen funder introgen funding on the buyeth of the theory of the limburst with the third of the carrier of the prices of the prices

The thoroid giant shows three phase thought for entity in which the globals street the ellipsisting these and the creting place. These phonomers in Irespects that the limit of the area is a to use a coffee the process of the entity of the entity of the control of the entity of the

C is torn res the occur from fine experiment of them that the destracts be one cheek that are mild from the average nerved gland with first field extract or that five years the them and remainful quantities the action of the area of the action of the control of

Water Clear MD

M rine D. The Importance of Our knowledge of Th. rold 11) 1 1 87 in the Control of Thyroid Diseases 1 k / M d 1 31 1 8 1

te a sem fillem tum start thi ga cuestinan ontil the ready Tiem, 21 1 tin fith ther liet ma ein the ghitte ta t f. m. a birber rate i me t t im than Hitep Teel mie a 1 an it tate The I tem nal I a mate to 1 ot rtt m h sopere t This consist etc. t

the same to exclusive matter that the

theroil i empletel remord lut if as un lle happen fragm nis racies to temain treen ta tion o curs and the metale lists again rises in a me in tances t in imal

Il at the that id gland if all the rieses ! varve ti rate ih at producti ne femon teated

in a ral sass

t It ha be n ! uningnimit that ing ry to it suprar nal glan! auses a murke! hr n incre u in the heat produ ton tr 1 1th th a del nla int et but that if the ther it; em thef re th suratenal glan is a conjured that rease tom h feet or dies nit weur at all

2 In ill marrimale tuli 1th re i a mark 1 i Intert production lumps prign na antititin The relat n f the th rif to th in re wille t groth to a fix gran all ctate a filath has an important leading a thir le breements (g it re) oc att p i ting it gnan anils t ti n In Imin trate nofth r la es inking

increase in 1 at a oduct n

4 Thir Irm allauses I ra nl tpdu tion If ret steer In eauth tibe th torlisanimpertanti trinth i e 11 tir duction omprived tralafection

The the lifer risit influe on met I limbs meansefut ver table i la ntaining him ther in It for etral tate cat il Imag lithrughth ! I tr m Thrilt Letras-plantel to an jut fth ! I has the m capa its f chaperila i ins luti n and th i r g of fostine as the a rm I sl n l

It thyroid thibits g at a sat n in fun tion ! activity t meet the wil fi to me in m tal fi n occurring for n If p rt cul rl in the f mal Many of their have note fith once selling for of thereil plargement (g ter) lur the inter and stru n nthe Thr a not bl in reae n the ila trity at puberty la ing pregnan la s tion the ment is a tracted the ide that the fuber ulous of others and following the p lon eless of ett in lets put cul il thin mith a

high fat ni pret n nt nt Increased the rold actual and act doubt decr se in the clare str hate glant ir id t the int Le of t I me at a t h t mest n t ree pend logis more i fitte inetrifibel worper cent ther clealarg m at b gins. When the sel acat ter bel or per ent h pe trophi at hiper te (unit gula ly The tool) t e plastic ch n or er wh dree es a th laree fh penta iner was so that in the most m rk d h perpl in to line a will of enterp na nl n a aces

The gen ralization in a le in le th t th 10 lin at revaries in cr ly 1th th legr of to h per

ei eln

I spen tents has hown I arl that the hanges In the jo line store and in the bit by tru ture which occur in exper nt ll contr ll 1 haper pl ma are sknikal with the wurring in ponts reaus hyperpl a f goiter I pe im ats a d re have trove I'll o that to his nitrols the oil o f

gro th an I have I monstrate! the unite the I go al f et that a ingle rgan e element prevent s rgt with of the alan lar I ontr is the f a Lond

value fut secrets a

mil gater is a empen story or no kh per place I pent et immed tels on a r fatts or absolute I f lency of 12 e Ib fret charm in th ther find sel jin g iter is a mark lide re es thei frest ? Uhnth tire has fil n bel'e o s per cent increased sascularits and cell hyper triphs and h people in secur. In man thered lehiperpl la is freq en ly irregular and extlic-

the trun s not water at nomat mg tr The treatm at I mple g ter i pre ert ve or urati e Indice is e ecti e in whiteser f in or

m an eit i almer ter ! Laog hthalmung terman be defined as the many feetati n of a 1 turban of the regulat re c rivi ant fun ti aufinter ti n f rgan activities which charact riz 11 ir rea ed metal li molth r ongo sthe and ta hyrards. The the d the a ment chant r c in the clinical mar lots tons file he setut w must b becon the glan I f r th o ntial and prim rade in There e er ett tibethemu hier aglants i pes real plinter nel arein obel Inc com is n male the the has f un i ein I tabe es In that they to t counth ther li n trkew red red lun geher r loftmerea dhert prol c ti n foll win ing ra to the al engle ar lh's been allet ause eintrit einheattratit ft ther I cahau to n to the a trenstrate of a I win li gram of todare

tennel series VD

Reinhard W Experimental in estig tions on the Rel tim lipol the Lerrical Sympath tict the They id (I ad (I pe m at II I ater h on u be d Res lungen d II I ympa h us m set diruce) De h Zich f Ch 195 d

In experiments in i gs chin i tritati n of one ers al s mpathetic er e with the f tale eur rent cause! al reem at f the c rrespon! globe of the thir I el n ! Mi c's opical exam rat on sho da I tinet sucrease in the colloid content of the lobe on the irritate is !

Hy means of total exturp to n of a cerucal sam patiets n r c the thirm il be on th am s 'c was eluced in size Michise I callet minati n of the

lobe reseal la dimi she l'eol il mitent From these upe nents it will appear that the cer scal sampathetic ners provides troph fibers

for th th r d glan t and that the quantitati c product on I coll dis go erne i by t

5 IGTM

B eitner B Tie bifect of todine on the Thyr id Ilw k ns al 1 Shill (Bmrk dute) B ž1 I ollowing a renew of the his new of the notice

tr tment of go ter the author dis'u th rela

tion hip of this treatment to present hy theories regard a the physicogy of the thyroid. This he does by any ering three questions as follo s

1 What is the relationship of the colloi I an I for re c ntent of the clan ! According to the secretion theory the colloid is the res rue secretion I the there I which is activated by the jodine an I thrown into the circulation when a 1 man l ari e for it in the organism

Why is the jodine effect different in the lif ferent types of g ster? In con-estive goster activa t on an 1 utilia of the reserve coll 11 occurs while in parenchymatous conters the outflow is at first thi tel In both casts the specific sodine effict is to be exclained by increase I efficiency of the

1 Why does the administration of todine ex rt a favorable influence in certain cases of Base lov s iser t The favorable effect of very small doses of 1 'ne is to be explained on the la is of the ctio I great character of the di ea e Impro ement is to be expected in all cases in which an increa e 1 lem in 1 n the thyroid is met by artificially increasing th iot centent of the secretion

Vlannay Ti Treatment of Suppurative Thyroid nnay II Treatment of Suppurative appropriate in the Statistics on light Cases (Dut to m tdes In mestlyr Ien II & stumte thingue pers n. He I huit I I tart 813

S LZER /

T o of the author's gatients level pel supgur tive there litts foll ing puerperal inf ti i t follo i g indienza two f ll ing pneum ni an i e fo'll wing an influenzal branchof neum ni I one case suffuration occurred will ut ffar nt ctuse

In on case Viannas merely frained the th roll to mer in In another h iner I and u it I In the litter the ther il was calcit i a i ul stern ! In three ex e he r m sed the gl n l aft dr nageh I been instituted by another urgeen aft r th suppuration proce h i ruptured le three offers he performed a grimary the roil t m I many there lectoms he regalish the pre-tuef ch LOTAL I D I VID

St hal. 1 The Hi t logical and Clinical Jind ing in Struma in Children in Low & Franconia Il lygo unt klank pre Il h Inim in t 1 km) 1 4 f k 101

with reference itsits one att 4 1g 1 in chiltren at the Wuerzlurg cl i f m th f ll f took tith summer first the g *< o civitians to 4 ١, th ce CLY T FATT SIEC SE 10 LE n 4 t rus tave t se encase 1 1. Ł tare is et ht cases 155 r 10 4 are I se to Illut the 1 th 1

ma Them stglings onl tlathil fla to inm !

r. What is the hi tolorical picture of struma in childr n of Lo er l ranconta? 2 Which clinical symptoms can be attribute !

to the functional cond tion of the thir id clan 12

3 What corre pon I nee 1 ther latwe n the clinical symptoms an I the histological ricture? 4 Can any de luction as to the tr atment le

arti ed at from our investigations and what are th s The investigati as led to the follo ing conclu

E) an His logial examination showed that the incil no of lifuse and nodular strumata is the

The notular formation occur more fre

quently at th g | | | uberty In the nodular getter there is evidence of a

tend nes to and priser ton f the epith hum 4 One c nn t ju ige the histolog call i icture from th fun tional on I tion (hype the rot lism Hasedor IL strum t etc) or 11 ver 1

In the e of strums in children there is reent at nines to sarih perther them n Inca focuti smot a traducing tru

matax in tr tm nt i t ber sected ln I omire ion of the triches there is

n al lut in l t n for one ation s winf raller ult reober if it wing ligition fill four art tis t exter ive te clim o but in at treatment with minimal amounts fi lines tober omm ni i

Jackson A S | Ire Operati e Treatment of Pa tients with Front th Imic Colter With Spe cial R fer nee to I ugol a Solution of Indine Im J S g t s 3 5

The good cult f surgery f the thyre I clan! r lue t gil in the tre perative care and ir per 1 t f the time f operati n rathe than the ricent ! eliment of a ! rilliant o service t hn ju In thirty et es of exo; hthalmie e iter wh h l ug l luti n was u ! before operati n to u 1 soper ent reduction in the la al metal I rate an i orre por ling re lucti n in the clinical amit ms to equently fewer preliminary lies til wr nec ri and there was les tost oper ti e h perthir it m is a t the los go of lugal a solution ha not been

letermi el letat le In som cases a 1 are of 6 ir pa a in fer f ur is a c uses marke i improve m nt tut in oth r the almin trat on of to lrope a fairth ins for not sall a satifat ry Ben It fr m the treatment : ir ! ated ! tre lt th I real m tal c rate and the real improvement I ml se atimi perills salual conthe ca es of interesting the numbers in service in the cases of interesting the numbers in service i en I ken pies to fr wuntil the tuler and t mie ature rem nn rmal Det i a mi in all e we ef ex phthalmic

g trath line fear el talin ma wat I gae to r ma of ear c cre-Is ture fight as gigner wer fittigerm

three times a lay until the patient complains of nauser. The let should consi t largely of fats or carbohy frates

Comiting luting a cri s cannot be control of by drugs. In such cases a ley bet con a ting of crack ers torst or trent is tried and the is are given to tectum or subcutaneously. Cathartics are usually avoi le l

Operation is never attempted during a en a Nincts for cent of the author's patients are per ated up in un ler local an esthesia

tarnat Surrence M.D.

Reinh ed W: Fatterati a of the Sympattetic Cancila in I sophthalmic Colt r (it e Sym) the (In In II lea Morte I seef i)
Dik Zik f (4 193 lax 7

In seven cases of clus cal Ba edow's lisease and in one case of thir idem (promin noe of the ever h I symptoms and strums with ut congestion)

the author removed the upper and milite cervical sym athetic gang) v. The cases of the ical P se if we dise se were cured. The onl. after-effects of sers. In the occasion of fachrymation and a market inject on of the conjunctiva immed atel, all r Le operation

The author recommends as most bectomy with a rumectoriv since h of tairs nucker and better results to the saical removal of the focus of t tosin. He resects the Base ow strums and removes

the terrical sampathetic. He employs the summathetic overation for the roil m for the f m f uste of Basediw's isease I r stru na with thirotosi goitrous heart and for the se ere canbac r aroses

The cure a ems to take place in three s ages the state of r rel improvement (exer hthalm's rot t unrest full itati n of the heart) t e s age of show up bu line an I the stage of complete cure

STEELE TY (7)

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Cameron H G Intracranial Birth Injuries
Lanc 1 1923 cc 1292

The author calls attention to the imme late and delayd symptoms produced by intracranial birth injuries a subject which has been receiving considerable attention particularly on the part of neurol orsis. A skillful routine examination of the new born to determine the presence of intracranial harmorrhage is of the greatest importance. The name Luttle sit cases is properly applied only to two groups of cases. (1) those of parapleger rigidit with great particularly without convolutions or mental symptoms. Intracranial harmorrhage at birth does not all asys cause bermanent damage.

I OYAL F DAVIS M D

Harvey S C Compound Craniocerebral Injuries
Bo to M &S J 923 clvvv 9

of its cases of skull frecture observed by the author during the last five cars fourteen presented a wond wine established direct continuity between the brain as the brain as the brain as the majorith of such compound connocerebral injuries fillianto a groups (1) wounds of the vault usually lacrating but sometimes penetrating and (2) wounds communicating with the arr snusses of the masophary for and usually produced by indirect violence. The they returned had a wound to the valle.

and two an injury involving the air sinuses

The primary aim in the t eatment of such com pound woun is is the prevention of meningitis en cephalitis and abscess of the br in The infectious material and tissue which is so damage I that it cannot re i t infection should be remove l as soon and as thoroughly as possible and the opening from the external surface to the brain should be closed to prevent future infection. The wound in the scalp and the damaged bone should be exped en bl c It is es ential that the bone be remo ed outs de the area of g oss contamination and over it fact dura As a rule the lacerate I dura soon be omes adherent to the subjacent meninges Such adhesions should be I sturbe I as I tile as possible Damaged cortex gross dirt and foreign bodies hould be removed from the cerebral sub tince. The closure of the d brided wound should be effecte I in lavers and in such manner that there will be no cerebrospinal flui I leakage A small rubber tis ue vick may be

use I as a fram for the first few hou s imme ! ately

after the operation The first e idence of infection

calls for vide opening of the woun land the u e of

protecti e tissue to prevent a fungus cerebri

Of the fourteen patients with a wound from the skull to the brain nine were operated upon and eight survived. None died from infection. Of the five not operated upon the survived. The remaining three deaths were due to severe concussion of the brain Livia, E. Days, V.D.

Weitzel I The Prognosis After Trephination (L e ir d s t ép né) Rev de chr I a 1923 xl 1 580

The author examined 340 patients vho had received head wound during the war. In some cases the examination was made as long as seven years after the operation

In such cases the defect in the skull becomes paralla filled by hbroous tu. Peroregio bodies within the cerebral substance do not necessarily provoke fatal complications but always represent a potential danger. Localized les ons of the motor sensory auditory or issul centers have a distinct tendency to impro e. Epileps vas rate in the cases studied and when it developed usuals appreated within the first eighteen months after the injury and gradually freezed. Ment for psychic symptoms varying from simple failure of memory to market mental defects occurred in 25 per cent of the cases.

LOYAL E DAVIS M D

Olmos J I and Lizondo R Traumatic Cere bro pinal Rhinotrher: Due to Opening of the Ant rior Prolongation of the Right Lateral Ventrical (R) re cereiroe p ltra mática por ab tur del prol) g m ento a t ior lel entri vio l t al derecho) S méd 19 3 xxx 30

The authors report the case of a man who sus tanned a fracture in the frontal region is hich was folloed by coma for two days in I subsequently by continuous headarch which was e-peculiby continuous headarch which was e-peculiby and the right sife. In less than a month Bravais jack onian epilepy deceloped the attacks one of the particular was not seen by a phase on until name months after the injustment of the particular was not seen by a phase on until name months after the injustment of the particular was not seen uncontinuous and the particular was not seen in months and the particular was not seen in months and the particular was not seen in the particular was not seen

Autop 3 revealed an opening of the anterior pro longation of the right lateral ventriel. The authors conclude that the trauma caused the mediate opening of the posterior wall of the ramediate sinus rupture of the dura at this site and ruptured sinus rupture of the dura at this site and ruptured the encephalic mass with the production of hamor thage and a consecuti e hamatoma a thin septum therepage the walls of the newly formed cavity sep arated he make anter tyrol gastin. I the right hereal vente (left The case of the he i be spligger) they believe as a school inflammatory proces. They are mit will be generally he here of the crebe final final a. The grider of the second of the crebe final final a. The grider of the second of the crebe final final a. The grider of the second of the crebe final final and the grider of the second of the grider of the second of the second of the term of the second of the second of the second of the term of the second of the second of the second of the term of the second of the second of the second of the term of the second of t

Farr R F. Encephaliti Simulati g Acut. At dominal Gendition. Mar. o. M. d. 1923. 1

Tarr reject three en 's o print urg all e nittion i the at I nen which wer ultim the lagn. Lawencephabiti

The fractione was the farming for resting who entered the heyelf settle extra symptom which were thy evil of secute intestinal colories in that do with the secution freat my first free kast trivial in each free colories. The first free fraction with the secution of the fraction of the

The sec nate of the tofa manefab are who called a sec real house they have the formed by many in fame k. I called a sec real house it for the formed to the who housed act min to a second partial and a second partial are a second partial and a second partial and a second partial are and all attentions the second partial and a second partial are and all attentions and a second partial and a second partial are and a second partial and a second parti

an a par ath could te rec very The thirte ewas that of a w man 23 years if ge who entered the to just with a ti game of acut appen! itis (n ralize! at tomin 1 ; in h 1 becam uffe he two lass present he and a miting Is min ton wa had occured several tim ne alive reest for ten terness of the ab I men with rigidity of the right I especial in the law r quadrant. The f mpe ature i as tor legrees b The luck te co at 118 15 000 Oper to h w s def reel for a few las At I p rotoms on th eventh day the appen ha tubes ova see and gill Und fer wete foun I normal Tater th pati nt was il scovere I walking in her sleep and three ne Le later her right foot became numb and he lost the power to fix it. The hagnost was pole encephaitis The patient ma le a e niplete rec ry except for slight foot drot

Buffey (Jr Bruin Ab coss J 4m M 1)

In pite of gradually increa ng intere t in ne ro I hierisurgety a revie of the literature an ici cases which the author has at all edsh a that the creek bas a she all still alm set as much a matter of lock a sit was twenty file years as not the range as not the high metality in this disease is the bestare with which surgical interference is located up naid the limitality. I make malterials and it ritle large is until the

n litt n is fra fran of an tolki u tv bo ele s. The author frit ien en e whi hillastrate fill electivin tillerent ting bet een the ren i ms fihe finan rithamenti n (mist lits

tt i in acce was town some discussional those ith se informational cess of the its in Ifferentiating by in tumor or

t thalite from te in al ces.

4 The torong we of he huntracer to algers

th t ring so of hit hintrager to digestee for the registrate material and the med like of the registrate fithe above into the crebral entitles to lumbar own ture

4 f) left ulty a let runiong the sec. I be I id ht jit i unallet to negerate. In the uga al enving ment of brain abus at be such r i k a mil treet je ecceptant and liph et k jit. Dher tube Ir im a nat the I thom of the hand in the left and it is the left and i

half girgrose to true (attent three ded but me to peat in literary-or ere perted j. Of the literary-or ered te ered. A THE CONSTITUTE

Se trar 11 S. Intracranial Tumors. Lo. 1 1915

ug lp lim than ther tt n ugali anuaitne Temt ts f ll w subdural einter rielhemen g nim emainlat nt Agl m tu t na s met mes re g nal t mort u h n xtent th t the il ce th latte unn the ouns 11 t ft rib rem valoi th coutth at flum that eve Of the granulom t strl th ost own ninchil hoolluter affect to the at of age Tulari a fr mil fre toth rebellum nin pultatir ing to Suph (3.) a loca e of a i ii la iu lis n i ce th ne ning at the t the n bacs n i bie u b th k I will th t th s cl Is imulat new growth

"The meep I m saa? I t in du man group FI natar I the utins new and I m the hir rittum r (the chelling points and Failth in t I the menages usual fronth but ith try utins not it in they neer no it it is busy at a line and form extend by number 1 m the itera is all only line in the menages under the man it is not it in the interval of pumpers and become the ring to the cannot be row of the menage the cannot be row of the menage the menage the cannot be row of the menage the menage the menage the menage the menage that the menage the menage that the menage the menage the menage that th

Secondary tumors may be formed within the cra rual cavity from malignancy elsewhere PAUL R BILLI CSLEY M D

Well M P and Welsmann Netter Cerebromen inteal Tumors and the Bordet Wassermann Reaction (Tumeur cérébro m ningé s et éact on

de Bordet Wa erm nn) B ll et mem Soc med d 14 1423

1923 3 5 It is pointed out that neoplasm of the meninges or structures in juxtaposition to them may cau e a positive Wassermann reaction of the cerebrospinal fluid and an increased albumin content and cell LOYAL F DAVI M D

Dott N M An Investigation into the Function of the Pitultary and Thyrold Glands Part I The Technique of Their Exper mental Surgery and a Summary of Results Q 1 J E pe Physil 1923 xii 241

This arti le is a preliminary communication deal ing chiefly with the technique of experimental animal work on the thyroid and pituitary gland function of these gland was obtained by the injection and feeding of gland extracts and hypofunction by operation The technique of the operation is re viewed in detail

The operative work on the pituitary body included complete extirpation partial removal of the anterior lobe partial removal of both lobes partial removal of the anterior lobe and total removal of the posterior lobe section of the stalk with the anterior lobe ves sels stalk ection with division of the anterior lobe v ssels and the insertion of a platinum plate and total

excision of the posterior lobe

The findings of the experimental work prove that the anterior lobe exerts a powerful influence on the tell activities of the tissues This is shown by a rise or fall in the metabolic rate as indicated by the tem perature by the degree of adiposity by the mental condition and by the rate of general development It exerts a specific and vital influence also on tissues of embryonic type as represented by epiphyseal cart lage and germinal epithelium causing either their degeneration by its insufficiency or their activity by its excess

The author suggests that the cause of e perimental hypophyseal polyuria 1 a stimulation causing in creased secretion of the pars intermedia

Complete removal of the pas nervosa aus s no

physiological di turbance

Thyroid disturbance is the inevitable consequence of experimental hypopituitarism In future in est gation the effects of thyroid d rang ments alone must be compared with those of theroid nd p tui tary insufficiency

The author concludes that the thyroil gland exercises the same influence on general cell acti its and the metabolic rate as the ant for lobe f the Therefore these glands may ct andepen dently of each other and acar ously for ea h other In contrast to the thy rold which influences the rate

of tissue processes only the pituitary body exerts a special influence also on the vitality of the embryonic PALL R BILLINGSLEY M D types of tissue

SPINAL CORD AND ITS COVERINGS

Aycock W L and Amoss H L Experiments on Local Specific Therapy in Poliomyelitis The Utilization of Hygertonic Solutions in the Serum Treatment of Experimental Poliomye litis B: Il Joh H bk s Il sp Balt 10 3 T 11

Specific antibodies are known to be present in the blood sera of man and monkeys following recovery from poliomyelitis. As attempts to obtain an artificial hyper immune serum have failed experi ments were carried out by the authors to determine the optimal use of the convalescent serum. Intra venous and intraspinal injections of this serum were not as beneficial as expected for the reason that the virus is located in the nerve tissue accessible to only a slight amount of the blood borne antibody and not reached at all by intraspinal injections the flow of the spinal fluid being away from the parenchym atous perivascular spaces the choroid plexuses and the ventricles into the subarachnoid space

From the work of Reed it was learned that anæmia of the central nervous system whether caused by exsangumation tying of the carotids or the intravenous injection of hypertonic sodium chloride solution induced a temporary reversal of the cerebrospinal fluid away from the subarachnoid space into the dural sinuses and by way of the tissue spaces into the capillaries so that it bathed the fibers of the white matter and the cells of the gray matter From this fact the conclusion was drawn that the intravenous injection of sodium chloride would enable poliomyelitis antibodies introduced into the spinal canal to permeate to the site of the virus in the nerve tissue

Acting on this hypothesis the authors caused pohomyelitis in monkeys by means of intracerebral inoculations of a suspension of glycerolated spinal cord from clinical cases and injected intravenously from 6 to 20 c cm of a 30 per cent solution of sodium chloride to bring about a reduction in the volume of the brain and cord The findings were as follo s

Reversal of the flow of spinal fluid was found to occur in the ordematous infiltrated tissues of diseased animals and reduction of the spinal fluid

pressure was possible 2 In the course of the disease the use of hyper

tonic sodium-chlori le solution alone was found of value to reduce the cedema 3 Daily repetition of hypertonic sodium-chloride

injections was as ociated with the danger of re spiratory failure

The optimal conditions for the administration of hypertonic solutions are yet to be norked out s Improvement was noted twenty four hours

after the use of sodium chlori le with the intraspinal



causes a weakening of the vasoconstructors and con sequently a dilatation of the vessels and a decrease in the blood pressure

Under certain cir umstances when unilateral ex impation fail to bring about sufficient reduction in the blood pressure bilateral extripation of the cervicothoracie sympathetics with the interruption of the plerus caroticus may be indicated. In addition resection of the silanchinius may be considered

After the operation the skin temperature was always somewhat higher in the left hand than in the right and the plethysmograph curves sho ed a considerable difference. The secretion of sweat was reduced on the left and: During the operation at young liference rendermed may be operation. If the first days following the operation the could phenomenate the properation of the country between the property of the prop

Microscopic examination revealed inflammitors and degenerative changes particularly in the gaingion stellatum. These might have been esponsible for the functional condition of irritation in the symmetry mathetic system.

Bardon and Mathey Cornat Perlarterial Sympathectomy and Varicose Ulcers of the Leg (Symp the tom perarterielle et ulcères variqueud jambe) L₃ td 1923 xx 694

The authors report upon thirteen cases of vancose ulices of the legs treated by penanterial sympathec toms of the femoral artery. The operation is incated in cases of complex rebellious ulcers and cases of simple lessons in which rapid healing is desired. The contra indications are pronounced arteriosclerosis cardiac decompen atton and retal or hepatic insufficiency. The technique of the operation involves very delicate decortication of the femoral artery without perforation of its wall.

The results are astonishingly rapid In the authors cases which were not selected cicatization of the ulcers occurred within six to thirty five days after the operation. All it pees of ulcers were represented and the majority of patients had been subjected to the usual treatments. In three of the thirteen cases the original condition has remained unchanged in one case after a year and in the two others after two years.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Stulz E and F ntaine R Lipophagic Granulo ma of the Brea t (Le granul m 1 p 1 h g p d s n) Rev d chr 1 t 1923 xl 646

Stulz and I fontaine refer to a length less on of the breast of tr umatic origin which simulates criter. They have of ervel such a case. They refer allo to the work of Lee and Marrin America who have reported the same or alltin a so traumatic fat

necrosis of the breast

The authors case was that of a 32 Actrol 13 oman 3 bo ha 1 borne two children. A month befor she sought treatment he had suffered an injury of the left breast. Inch resulted in a tum r. On examination in the ho pital the clinical in lings led to a diagnosis of cancer. In traumation in ingerelited with stimulating a preceive the traumation in the breast with stimulating a preceive and the stimulating a preceive of the stimulation of the stimulatio

was any utate!

During the operation the authors ob-rie! th
rupture of a cystic cavity containing a clar vellow
of fluit. This was exam in in recosope citie but
noe elinece of cancer was found. The peculo tumor
via a fat cist with thickened wall. In wall contained young connective tissue a l'multinuclear
ell resembling gaint cells around fore gin bodies.
The lesion was due to inflammatory reaction of th
mammary fat. Th authors des gnate it va. 1 {z}
phage granuloma and sugge at the sub-tuition of the
term traumatic/ipophagic granuloma. I riche term

traumatic fat hecrosis us db. Lee and Al ir Nine cases for found in the hierature I is there had been a vi fent traumatic book but n the three others the tumor follo e I a simple hyp ofe mic puncture. The lapse of time bet cent th injura and the support of the properties of the better than the support of the mental time to the support of the support of

The authors object t. Lee and A lair Insultant ton of traumatic fat necro s of the I m le breast as a distinct funcial entity. The regard II such lesso s (I pophagic groundona of the breast p a finoma vaselinoma etc) as m infestations of the sarrep thologic-process viz ground mad of the I trues. In the I reast a hipophagic granulom acquires greater clinical unportance because it r e sibles common type of breast a cer. W A B

TRACHEA LUNGS AND PLEURA

Heuer G E Enpyema of the Pleural C ity

One of the most important factors in the cu of ac te emprem and the pee to of honic m

premais earl recognition of the condition. In Heuer's opinion my emais frequently overlooked 1) the general practitio or. In 50 pricent of a series of 425 cases een at the Johns H pkins Hospital Baltimore the condition had not been prompt by rec gnized or not projectly treated.

The type of organism is los of importane in the mortality. The mortality due to the pneumooccus as opa-reemt the tidue to the sterripelococcus as opa-reemt that due to the sterripelococcus is per cent and that due to the sterripelococcus is per cent and that due to the influenza clush is oper cet. In the presence of c mplica to the story of the sterripelococcus is per cent and that due to the influenza clush is oper cet. In the presence of c mplica to the sterripelococcus is operated by the sterripelococcus in the sterripelococu

ses in which such omplie tons were ab ent it was 6 per nt
Heuer beli e that the use of local nesthesia lu e th mo tality. In a relati ely large group of c se in hi h the empyem is lo alized e cap sul ted and the patient is not seriou to ill it makes ht I diff r ace s far as the mortality is concerned heth r the air tight method of drainage intercos tal in on with open dr nag or r b re ect n ith open dramag a d O th oth r hand a the c ses of patients h are a utel lar uffering with a unlate tribit ral peum a the choice of operation of ry great import ne In su h cases the less at n e th op rati n the b tter especially ca solin mona urg lp um thorax must pre nted Part cularl in childr n marked impro in the m tality has be not disnee the establ h ent fair tight drai age or aspiratio iramag In the ser es of cases tudie I the use of Dakin lution in the pot p att et atment con tribut it the good e ult

The notes to che nicits empsema is favor d by thick gof the pleu a in dequiderange the presence of neighborhood and of the presence of the presence of the presence of the presence of the theory of the presence of the prese

410

empyema has become chronic. In the control of the postoperative course frequent \(\nabla_{\text{ray}}\) examinations are necessary

In the series of cases reviewed the great increase in the percentage of cures in a period of thirty six days following the Carrel Dahin treatment is a straining indication of the value of adequate post operative treatment. This treatment can be carried on best in a hospital in the list few scars the author has refused to discharge accerding to the carrel of the ca

The restoration of the functional capacity of the lung on the involved side t the more complete the quicker the recovery. When the convalescence is prolonked retraction of the che t thickening of the pleura fustion of the diaphragm and a decrease in functional capacity are relatively common

In chronic empy ema the lung does not expan I and fill in the cavity because of the adhesions bet cen the pleural layers at the margins of the cavit, and because of the thickned resistant inelastic pleura. This can be corrected by three methods (a) the Fowler Delarmo operation with removes the visual control of the cont

In 1920 the author reported se en cases in which by sternizing a chronic empyema cavity he caused an unobliterated cavity to remain sterile and even tually to become obliterated spontaneously by the expansion of the lune. RAIDE BETTHIN WID

MISCELLANEOUS

Deal D W and Palmer G T and Cole II H
The Indications and Technique for Major
Chest Surgery Ill o M J 1923 lv 3 9

The authors call attention to the advances made by modern surgers in the field of thoracic diseases. To illustrate operations they report several cases. A number of instruments devi ed by them for thoracic operations are described briefly

In the authors experience the incision along the seventh inter pace is too low for favorable exposure therefore they make the incision in the sixth interspace. They call attention to the fact that most of the poor results attending operative open piece of the poor results attending operative open piece mothoriax are due to the suddenness of the change in the intrathoracie pressure relationships rather than to the change itself. Therefore whenever possible they accustom the mediastinum and the large thorace continued to the change of the continued to the change of the continued to the change of the usual artificial pneumothoriax.

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Seelig M G and Chouke K S A Fundamental Factor in the Recurrence of Inguinal Hernia frek S rg 1923 555

Besue of the high ancidence of recurring to be ungoperations for the cure of herms the authors planned experiments to determine a hether muscle will until with fascia. The Bussim operation the standard operation of today, has as its antomical abasis the suturing of the internal old que muscle to Poupar's ligament to recon truct the floor of the regular training and the floor of the regular training and the floor of the contract of the property of the floor of the contract of the floor of the contract of t

The experimental study, as made on the facus at an animactics of the thigh odgs. The faccas was incred and subured to the muscle without tenson at a consumer of the muscle without tenson across sutter materials vere employed. Some vere purposely solied to ob erve the effect that infection would have. In another group of animal the muscle was traumatized and the facon autored into the traumatic and great. In other facon as uttered in the subured was traumatized and the facon autored in the subured was traumatized and the facon autored in the subured was traumatized and the facon autored the subured was traumatized and all facon facon as a subured with the subured and the facon autored the subured was the subured to th

to fusion. The following results are reported:

I Gevery instance of clean wound healing the fascia was wid it separated from the muscle to it. In that the me survey of the thing the separated from the muscle to it. In the disciplinary of the fusion of the state of the fusion of the

I haclose union
2 In every case of nound infect on the lascia
wa separated widely from the muscle to which the
hoten suitured. In these is a new a two-upon infection
the last the last the carchonary inflammation
to the suiture was more marked than in the contount the suiture was more marked than in the contount the suiture was more marked than in the contounty to the carchonary inflammation
to the feature was more marked than in the contounty to the control of the connot consider the conplace was three a sold sheet of heavy connects or
tissue unting the diges of the separated muscle and
scare in these infected wome of
was nearlied that the control of the considered control of the control of the conwas the control of the control of the contone of the control of the contone of the control of the contone of the control of the con
tone of the con
con
tone of the c

3 In every instance in which the muscle was traumatized by the excision of a wedg so that the fascia could be sutured in the raw trough there was an attempt at direct union between fascia and muscle. This union was complete in only one instance.

Applying these observations to the usual techn que
if r herma operat on the authors come to the follow

ing conclusions

t Normal mus It will not unite f mis with fascial or ligament. It is therefore a us less procedure to suffer the abdominal mus let to Poupart's ligament in the hope of buttressing a weak or ruptured abdom nal wall.

a l'ascra unites v ell v ith fascia

3 The veal abdominal wall should be strongth ened by a method to secure fascia to-facia uppro version Jov Volver MD

GASTRO INTESTINAL TRACT

Walton A J The Chronic Dy pepsia of Wom n

The chronic dispeps t of many 3 are durat on may resemble superficially but not e sentially any

organic disease of the stomach duodenum gall bladder pancreas or appendix Eghts per cent of

the subjects are females I typ cal case of chronic dy pepsia 1 that of a woman between 20 and 30 years of age who since her twelfth to fifteenth year has had more or less continuous severe epigastri pain whi h passe around to the back, is increased by food and exer ci e comes on after meals become worse in the evening and is sometimes relieved by lying down The appetite 1 poor and at times vomiting ocurs During severe attacks there may be hematem sis Another complaint is marked co stipation Because of d et ng and limited food intake there may be con siderable loss of weight. The pati nt has a foul breath a d a sallow omple 1 n w th reas of p mentation Extreme ca es m v sho the ptosis babitus

The d finite pathology of the c ndit on cors is of localized abnormal ites n the intest at Itate! Changes in the general body structure, and alterations in the nervous system. The localized oblivaging from a discoping of the item of the nervous system. The structure is a disconsistent of the nervous system. The structure is a disconsistent of the nervous system and independent of the nervous system. It is not the next the next the carcum to be not the posteror addominated all 20 alco no smemb u e come sing of bund from the accum and asc ading colon to the right parretal wall the me or be fold due to bands ab ut the duodenojeunal juncture memb a est from the? I create duod num to the hepatic flerure of the colon. Toldt memb and which binds the pelivor colon the left this clossa

and Payr's membrane. These membranes and binds are often found accidentally have been dis covered in young children and in the fetus and are doubtless congenital. They usually do not give rise

to symptoms until ptosis occurs

In virgual types of chrome dyspepsis the patient is thin poorly nourshed poorly developed and tall the tissues are soft and relaxed the chest and engastine angle are across the dorsol curvature of the spatial soft and the spatial soft and the properties of the spatial soft and the pelvis appears too wide for the body. Flat feet genu valgum and scolosis may be present. The maternal type is characterized by relaxation of the abdominal wall due to numerous prepanners wisceral ptosis counding of the shoulders with ab ence of lumbar lordosis and the symptoms of hysteria and ceneral melanchobia.

Occasionally in apparently bright healthy at helic grist the ploss and mitestinal changes are recognized only at operation or \(\nabla_{\text{ta}}\) examinations fifty per cent of persons show a mobility and antiority per cent of persons show a mobility and antifright experiments of the control of the conregarded as abnormal. Hence it appears that other factors such as general loss of muscle tone and postural defects are necessary before symptoms result. Persons with poor mental capacity are more apit to have a loss of muscle tone than those of ex-

mentality

The treatment : pr marily medical with atten tion to physical exercise rest general hygiene licting etc A surgical procedure cannot be expected to relieve the postural del ct the general bodily and mental chinges and the numerous local intestinal cond tions. However, when the majority or the most argivacting of the swintowin pertain to the

SEUS such as the stomach the caccum or the as ending colon operative interference on that particular structure may ge e cited though it may not cure The operate it endies of membranes and band that kink or obstruct and the 1 atton of various abnormally mobile structures should be followed by metical treatment and the wear go fan abdommal be der Resection of portions of the intestinal tract is becoming more nd m re limited. Resection of the colon has a high mortality and any not justifiable for any condition which ould not in itself lead to leath.

N mura T F cal Infection in Ulcer of the Stomach 1 5 g 9 4 l 9

Streptococci usually n l rge numbers were found in the tonsils constantly tho e of the aridans group usually predominat ng in inci le ce and number

Dilated crypts believed to be the result of fibrous diseisons and file t with p contaming numerous streptococci and other bacteria were found in the most ked miny pittens having ulter of the stomach to the stomach of tall tubes I glucose brain bit the high of the stomach brain bit the high of the pressure is shown but the fact that pittings from ghiten hour cultures in this me hum often gave pure cultures of streptococc why trea during platings.

of pus from the tonsil yielded streptococci staphy

The lessons in the stomach and joints not only occurred in a higher percentage of animals but also were more marked following the injection of the respective specific strains than following the injection of non-specific strains. In the case of the arthritis strains a larger number of joints were involved.

The findings in the ulcer experiments resembled those in the spontaneous disease in man. The animals with ulcer often appeared well the location of the experimentally induced lesions and the number of organisms in the deep layers of the margins of the

ulcers were similar to those in patients

In many respects the findings in the arthritis reprenents also resembled those made in cases of arithritis in patients. The joints most markedly attacked showed erosion of synovial and cartilag mous hinning there was usually extension to the perairricular structures the free fluid contained few streptococci or none. Both in animals and man the large joints subjected to the greatest stress and large joints subjected to the greatest stress and leasons developed only following the injection of small doses of the streptococcus from the pus expressed from tonsils in situ and from small quantities of the broth culture.

The virulence of both the ulcer and the arthritis strains was low Most of the animals apparently remained well after the injection and the blood and non specific organs soon became sterile. Because of this and the marked stimulation of antibodies heal may began early. No doubt frequently repeated may be a strain the control of the property over long periods through chronic foci of infection are often necessary for the development of chronic results.

ulcer of the stomach and arthritis

The demonstration by Davis and Wood of strep tococci passing the epithelial liming of crypts in ton sils and the fact that Rosenow and Meisser produced urmary calculby causing devalualzation and infection of the pulp cavity of teeth in dogs with streptococci of the pulp cavity of teeth in dogs with streptococci norm epithochiansis leave no doubt that invasion may occur from chronic loci. The bacteria in the tonsils and other foci of infection and their tosuc products are considered to be always in condict with the delensace mechanism of the host. Fuctuations are considered from exposure to cold or other causes of the conditions of the control of the control of the conditions of the control of the control of the control of the control of the living bacteria and their products.

The characteristics of the streptococci isolated were variable. The organism was subject to the medium in which it existed and appeared in short or long chains. Its fermentative power while often persistent was affected by the medium its virulence varied and on subculture and animal passage its power of attacking certain tissues was often very labile. For example, a pure culture of hemolitus extreptococcus was obtained at autops; from the

blood of a person who vas found to have had acute ulcer of the stomach and duodenum as a result of extensive burns of the third degree In two rabbits into which it was injected the primary culture produced marked hamorrhage of the stomach but the fourth daily subculture in glucose brain broth which was injected into three rabbits caused hemorrhagic ulcer in only one animal and the sixth subculture which was injected into two rabbits had no effect on the stomach in either animal

The autho s fin lings with regard to the importance of foci of infection and elective localization of streptococci in arthritis and ulcer of the stomach the lack of elective localizing power of control strains the labile character of the property on which the elective localizing power depends especially in cultures with a high oxygen tension and the need for stri t attention to technical details in elective local ization studies are in agreement with those of Rose tow

The conclusions drawn are as follows The tonsils of persons suffering from ulcer of the stomach and arthritis commonly harbor streptococci which when injected into animal tend to localize respectively in the mucous membrane of the stomach and in the joints and to produce ulcer and arthritis This is not true of streptococci in the tonsils of normal person Hence it may be concluded that foci of infection harboring streptococci having elective lo alizing power are important factors in the primary causation and the persistence of ulcer of the stomach and arthritis T NARAMURA M D

Stewart M J The Pathology of G stric Ulc r Part I The Etiology of Peptic Ulcer Part II Pathological Ob ervations on Ga tric and Du denal Ulcer B / W J 9 3 955 10 1

The author divides his discussion of the etil gy of peptic ulcer into two parts (1) the cause of acute picer and (2) the factors leading to the pers stence of such ulcers

In the first part he considers factors causing in jury of the gastric mucora and the digest ve action of the gastric juice. He revie vs the various theories which have obtained in years past iz the theory of vascular blocking by embolus or arteriospasm general factors including chloros s and other types of anamia and injury by them cal or physical agents He believe that all of these are to be greatly dis counted and that the most probable theory is that of bacterial infection a shown ty the work of Rosena He review the work of Rosenow emphasizing the mportance of the selecti e action of certain strains of streptococci which have a low virulence and have been found to produce ulcers in experimental animals

The action of the gastric juice is another factor of importance The work of Bolton who controlled the incidence of experimental gastric ulcer by con trolling the supply of gastric juic and of others is reviewed Bolton showed that aru e ulcer is produced more easily and is more ext usive in the digest ing than in the resting stomach Experim ntal work

by Mann and Williamson shoved that duodenal ulcer is more easily produced in experimental ani mals by d verting the normal neutralizing duodenal contents and allowing the duodenal mucosa to be constantly bathed by the acid gastric contents. A b) peracid gastric juice will more read ly produce an

ulcer than a gastric juice of normal ac d ty Hurst's hypersthenic gastric diathesis may be a predis po mg factor. Hurst stated that perhaps to per cent of all normal person exhibit hi perchlorhi dria and gastric hypertonicity and that under such cir

cumstances the duodenal cap : bombarded by acid gastric juice for several hours a day

As in all experimental ulcers the greatest difficult is experienced in p eventing the occurrence of heal ing an experimental chronic ulcer is difficult to obtain Bolton noted that in cats a m at diet de la) ed the healing process more than a milk diet This he explained on the basis of the long retention of meat in the stomach and the greater secretion of gastric juice induced by it. By caus ng mechanic ! constriction of the duodenum in cats Bolton estab I shed a definite delay in the healing of gastric

If the results of these experiments can be applied to man a relationship between delayed emptying of the stomach and delayed healing of gastric ulcer is suggested Reflex pylonic spasm with reten tion of the acid contents and prevention of the nor mal regurgitation of alk line duodenal contents v 11 favor chronicity The clinical effect of di in con trolling gastric ulcer is generally admitted and in this connects in the mechanical evid nee f poorly masticated food and protoplastic poisons su h as vinegar may be mentioned

Acute ulcers are di tributed videspr ad n th gastere mucosa, but chronic ulcers tend t - ecur o-e the course of the original gastric tube-that the le ser curvature. This indicate that there are probably other factors in chron city These may be the comparative fixity of the lesser curvature a d the greater degree of trauma a d fr ct on in this

In the case of the d odenum th retention of highly acid purce in the duodenal cap for long perio is is probably important in the con ers on of a ute ulcer into chro ic ut is and wo ld ac unt for the fact that choose ulers us ally occum the first part of the duodenum while acute duode al ule r as widely distributed

The second part of the ricle i dis ussion of the pathology f ga tri and duodenal ulc r based upon a s ries f 1 500 ut psv and 1 0

operat e specimen

In the author's opinion the relative fequin v of chroric gastri ul er and chron c duodenal ulce s 3 4 This is in marked contr st to th d ductio of other observers. The scars of heal d gastr c ul er are f und slightly more frequently than those of duodenal ulcers and no 45 pe cut f the cases associated I stons of the stomach and duodenum ar present

Before the age of 20 years acute ulcer is infrequent and chrome ulcer trar. Ninety per cent of the cases of chrome gastice ulcer and \$3, per cent of those of chromic duodenal ulcer coming to autopsy were those of persons between 30 and 60 years of age the highest incidence of gastine ulcer is between the ages of 40 and 60 years. Chromic gastine ulcer occurs rather later in life in malest than cocurs rather fater in life in malest than upon the state of the

Ulcers are divided into acute subacute and chronic varieties The chief differentiation lies in the presence or absence of fibrosis but an active acute ulcer shows neutrophilic infiltration in its floor and slight cedema Acute exacerbations of chronic ulcers exhibit these al o but they are always localized at a certain point in the floor Chronic ulcers show in addition lymphocytic infiltration near the blood vessels with plasma cells of all ulcers frequently contains eos nophiles The small vessel in the floor of the neute ulcer are often filled with thrombi or fibrinous plugs In chronic ulcers the vessels may show endarteritic an l en dophlebitic thickening

Acute ulcers are multiple and widely and irregularly d tributed They var in size but the major ity are less than 4 in in diameter. They have a punched-out appearance and are shallow involving at the most the mucosa and submucosa penetrating ulcers are terraced because of pene tration over a lesse area of the muscular coat Acute perforated gastric ulcer i very rare. All such ulcers tend to heal readily the amount of fibrosis and scarring is dependent upon the involvement of the muscular coat Ch onic gastric ulce s are single but may be accompanied by acute ulcers. Double chronic duodenal ulcer 1 fairly common Most chronic gastric ulce's occur along the lesser curvature but seldom exactly at the pylorus

In the senes of cases studied all throne duodenal ulcers were in the first part of the organ and a most balf were double lessons anterior and posterior (Chronic ulcers have thickender founded) and o et hang ng margins in the active stage and flatter margins when they are active they also and or they are active they also and or zone of sloughing in the floor which coins to of an intensely essimplified tructurels ground how and epitesents a necessary ulcers presentate the my cultive cast. Performing the presented by fibros she addresson of adjacent visceta and passo flat deep elfow the constitution of the presented by fibros she addresson of adjacent presented that they are the presented by the presented that they are the presented by fibros she addresson of adjacent presented that they are the presented that they are the presented that they are th

The heat ng process in acute and chronic ulcers; similar Folious g the separation of the slough marginal epithelium grow inward and fibroblistic contriction in the floor reduces the size of the lesson The slow healing of the once ulcers is due to the expense of the size of the size

ulcer cause hour-glass stomach Duodenal ulcers affect the pylorus only when they are situated with in / in of it

The author discusses the complications in an analysis of a fatal cases. The most serious and control of a fatal cases. The most serious and control of a fatal cases. The most serious and control of a fatal cases of a fatal cases. The application of a fatal case of a part or all of the p-ritional floor due to a lop progressive devascularization. In the stomach perforation usually occurs on the anterior wall near the lesser curvature. Duodenal perforation which is more common also occurs as a rule on the anterior vall.

Fatal hamorrhage i usually caused by a chronic ulcer and more frequently by duodenal ulcer than a gastric ulcer

In discussing the development of milignancy in chronic ulcer the author states that is per cent of all cases of simple chronic ulcer coming to operation have developed cancer in the ulcer and one half of these mal gnancies were unsuspected at the time of operation

The article is concluded with a discussion of the development of jegunal ulcers at the site of gastro enterostom. In the series of cases studied there were four such ulcer follolying thirty four operations and in every case the operation was done for duo denal ulcer. Paul R Billingsley M D

McC very J A Acute Perforated Ulcer of the Stomach 1 S rg 924 l viv 91

The operative treatment of acute perforated picer of the stomach and duodenum is still a debate ! question Some surgeons claim that simple closure is sufficient others that a more radical procedure usually ga tro enterostomy is necessary The a lvo cates of simple closure claim that perforation cures the ulcer and that more radical treatment increase the mortality may spread the infection in the peri toneal cavity is never satisfactory and may be fol lowed by reperforation hamorrhage stenosis or jejunal ulce Su geons in favor of more radical treatment the numple closure claim that perforation alone does not cure the ulcer in a number of cases that if the case are properly cho en the more radical treatment does not affect the mortality that the danger of sprea ling infection is of theoretical rather than practical importance that i hile gastro enter ostomy is not all cays successful in relieving symi toms or preventing complications it is succe sful in such a large percentage of ca es that there can be no longer any doubt as to its specific effect that suturing narrows the lumen and the operation safe guard against secondary perforations and subsequent stenosis and that the incidence of jejunal ulcers is extremely low

Between O tober 1 1919 and August 1 1913 t enty five cases of acute perforation of gastric or duodenal ulcer were treated on the first division of Bellevue Hospital Nev York. Vomiting occurred in 40 per cent of the cases of luodenal ulcer and in 80 per cent of the cases of gastric ulcer. Oblitera tion of liver dullness was noted in nine of th twenty five cases. Shock was an unimportant factor

Operation was performed in ill but one unexpose niced case. In his instance perfectation was spee ceded forty eight hours by a massive homorrhage was accompanied by a second severe homorrhage and was followed by death in three hours. In all there were sever deaths a mortality of 26 per cent in the ten cases of duodenal uleer there was one that the fitten ere so of gastric uleer there, were six deaths mortalities of 10 and 40 per cent respect; it is

Cloure of the perforation was the first step in all but one case that of a man in desperate couldt on in whom only pelvin peritogeal d ainage, was done under local and thesa. In the time other cases of diodenal ulter simple closure was done in twe and closure and gastro-enterostomy in four. The imbica tions for gastro-enterostomy are (1) good condition of the patient (2) the presence of inflinitation retied may well beyond the limit of perforation and (3) parent strongs due to closure of the perforation

Of the fifteen gastric perforations nine were at one mear the plotts and s x in the flundus. Of the cases of pilone ulcer eight came to operation. Immediate gastro-interessions was don in two. The six others were treated by simple closure. The six others were treated by simple closure alone. Draining a see employed in earl closure alone. Draining a see employed in earl cases and its deadly dim mishing frequence at was limited to the abdominal wall and was done only when their bad been extensive soling of the per toneum with contamination of the abdominal mission.

Ausmin S S Compleations Following Operation for Gatric Ulcer (Postope at e k mplak to a nch Operana wga Ulcus ntriul) badid R x Clr K f Pt grad 193

This article is based upon 135 cases of ulcer oper ated upon during the last to and a bill ye rs on the service of Hesse at St. Trin tas Hospital Petro grad Forty two of the op rations were resections eighty seven were gast o enterostomies and six we eplonic evidensins by the von Essisberg method There we e twenty non fatal and twenty-one fat } complicat o e.

To lessen the danger of the operation it was when possible performed under local anxisthesia two resections and twenty on gastro enterostomies wer thus performed. Ninely per cent of the not recent gastro-enterostomies have been done under local anxisthesia. Only five 1 ft it writty one det in occurred in cases in which local anx thesia was

employed
The ti enty non fatal complications included

Infarction o the right lung and thrombophlebits of the right femo at vein on the fourteenth day after a stroente ostom; in the case of a patient with chronic endocarditis. The latter is to be regarded a the cause of the complication. Harmorthage This occurred in three cases after gastro-enterostomy and in one after resection In the latter Kravkon's remedy fluid extract of polygonum hydropiper was used with success

3 Hamorrhage from the right kidney (confirmed by cystoscopy) on the tenth day after a Billroth I resection. This complication is very rare and suggests anastomosas between the vessels of the kidney and those of the reastro-intestinal canal.

4 Separation of the margins of the wound Trus
occurr I in three c ses on the seventh or eight day
The fatal complications re summarized in the

following tabl			
-		·	
Ope atso	Cm wth	E ses	Time of dea h
	trans de	}	das
Gas no-e rost my	S gl [mi en th] truo mm son [s-m se [fg	1 .	5th day
R se€ :sq	Shock	, i	1 hou
-	Chirof naposous	() {	t nd da.
Reser d no-	P to		nd to b
1 Early & Sens	l ny te	} }	ent day
lon Eiteng	m .	1	d the
(45 to 4 to m)	Ac the ch		h day
E no my G ostm	हों के हैं एक्षाम क्षिका ते स्वाध		nd d h d
€ no re my	S d ou g I ut 1		th day

These se ete complicatio were due in part to the unalworked local times under which the perations were pe formed in 10 y 1000 the loss temperature of the operating on and water per inconditions the transferred manner of the conditions the transferred has been very geally reduced. The arrest and most inte to it go complication was the irrangulation of the mill rate fur in the pot to unitamies color mesenterly of ration which is artificably produced in 10 cases of gastro-enterestions the deposition of the mill rate on this a thick all the color of the mill rate on this a thick a cleft should be clo ed to suturing the m s c lost to the measure of the mill it estime. See Mal

Eust rman G B Recurr nt Ulc r of the Stom ach and Duodenum Clinical Notes on In i d nee Diagn sis and Etiology If n 1 V d 0 3 1 598

In cases of recurrence [distressing or p. i ulgas tine as mpt in a after gistro-enterostom) fur posbilities mu to be borne in mind by diagnosticians and surg ons la the ride of the rf equency these a e () receit to in the original pa thy healel o un hated leer () is strojejunal or a stom to lee (3) the formation of a new or recurrent ulcer in the stomach or duodenum and (4) carcinomatous changes in gastric ulcer

Between 1905 and 1922 inclusive thirty seven patients with recurrent gastinc or duodenal uler were examined in the Uayo Clinic. Thirty three of these were subjected to a second operation. Note of them were women During the same period of time approximately 7000 operations for chronic gastroduodenal uler were performed. Obviously therefore the complication under discussion is rare

The cases vere classified in three groups (1) e ght cases in which gastric ulcer had apparently developed after succe sful gastro enterostomy for duodenal ulcer () eighteen cases in which gastric ulcer had recurred following primary operation for gastric ulcer and (3) eleven cases of duodenal ulcer recurring after operation for duodenal ulcer Six of the patients in Group 1 had evidence of marked focal infection in the teeth and ton il In thirteen of the patients in Group 2 there was advance l periapical disease pyorthera or tonsillar sepsis or some combination of such foci All of the patients of Group 3 had hyperacid ty In six there was def inite retention with hypersecretion Five of the latter had had an exci ion 1 ith or without a plastic

operation
With few exceptions the symptoms engendered by
the recurrent lesions are identical in those of the
original compliant

According to the most tenable theory infection is the predisposing and e usative factor in recruits the predisposing and e usative factor in recruit guiter. This is corroborated by the large percentage of demonstrable foor of infection in the series of cases reviewed in this article. Other predisposing, causes are bully indigestable food hastily and heart alve caten too soon after operation nervous strain fatture climatic exposur espiratory infections and the intemperate u e of tobacco alcohol and condiments.

It follows therefoe that recurrence may be greatly minimized by the routine removal of all demonstrable and suspected foci of infection by the avoidance of the predisposing factors enumerated and by postoperative diet and alkalini ation of the markedly hyperacid cases

GEORG B EL TERMAN M D

L Wald L T Syphilis of the Stomach Roentgen Appearance Befo e and After Treatment R d l to 9 3 93

In certain cases ga tire siphil may cause a symetrical dumb bell deformuts of the body of the stomach. When i causes a generalized fibromatosis the stomach has a tubular appearance. If the fibro to that of gaster continuous configen preture is similar to that of gaster continuous configence in the continuous continuou

of a positive Wassermann reaction help to establish the diagnosis

After several years of active antisyphils treat ment the deformed stomach may become almost normal in contour Conservative surgery such as gastro enterostomy is a valuable adjunct in the treatment and is not apt to be followed by com plications Charles H Heacock M D

Moore A B A Roentgenological Study of Benight Tumors of the Stomach im J R e igend 19 4 1 61

The author studied the roentgenological findings in twenty three cases of benign tumors of the stomach which were operated on at the Mayo Clinic There were two adenomyomata two leiomyomata seven hbromyomata three simple myomata one dermoid two cases of polyposis one single polypus and five hæmangiomata In more than half of the cases superficial ulceration was present. The growth was situated in the cardiac end of the stomach in two cases in the middle portion of the stomach in seven and in the pyloric portion in twelve. In one case of polyposis practically the entire stomach vas involved while in the other the lesions were local ized in the lower two thirds. The lesion was on the posterior wall in nine cases on the anterior wall in seven on both wall in two and on the greater cur vature in two In the record of three cases the exact location was not given. The tumors varied in size from a large dermoid weighing 1 000 gm to a very small polypus about 2 cm in diameter

In five cases the symptoms simulated those of carcinoma of the stomach in four they simulated those of ulcer and in ten were indefinite. In four cases the principal or only complaint was hæmor rhage from the gastro intestinal tract. Eleven patients had had either melæna or hæmatemesis Gastric retention occurred in three cases.

Gastric retention occurred in three cases

A review of the cases shows that benigh gastric
tumors manifest certain \(\chi\) ray signs which differ from
those in malignant or inflammatory lesions

 They produce a filling defect that is circum scribed and punched out in appearance
 The filling defect is usually on the gastric walls

the curvature remaining regular and pliant

3 While the ruge in the immediate area of the tumor are obliterated just as in malignant and inflammatory lesions those surrounding the tumor are more nearly normal in their arrangement and distribution

4 They cause little or no disturbance in peristal sis and retention is uncommon except when the lesion is at or very near the pylorus

tesion is at or very near the pylorus

5 They do not reveal a niche nor is there any
incisura or other evidence of spasm

6 They are rarely sufficiently large to be pal

While there are no roentgenological signs that are pathognomonic of benign gastric tumors these findings are strongly suggestive of their presence and when they are noted the roentgenologist shoul! hesitate to report the lesion as mal gnant and inoperable especially if the clinical manifestations are indefinite I D CAMP M D

Gotset Loews and Bertrand A Pedicled Tumor of the Stomach (Tumeur pédiul e de l'esto-mae) B et mém 5 de th d Po 1923 xbx 1182

The patient a man ag 148 years had peversul fered any gastric disturbance other than moderate eructati ne which were reli ed by alkali buddenly on May 11 1923 he pa i I faces mixed with a black vi cil material. Three days previou ly he had noted light fatigue and fever. The melant per a ted for four days and caused pullor anemia and weakness 1 ray examination in the ert al pe tim showed a I shaped stomach to the lift of the me hand ne ith the pylorus frawn towar I the right There was no deformity of the lesser or greater cur vature the emptying time was regular an I the duo denal can was filled. In the horizontal position the les ce curvature re e led an irregularity in its center which was not affected by peristalsis. Labortion of the les er curvature cause f pa n Repeated \ ray examinations made fr m May to September dem onstrated pers ten e f the deformity

On July 15, 1921 another intestinal ham ribag Thereafter the stock contained blood occurred

constanti

The car ent was placed on a diet, and la cause of a positi é blood. Ha sermann reaction wa gi en arsenical treatment. In spite of a good appetite an I freedom from pain an lomiting he progres

say ly lost weight and strength

Querst on through an upper in line incison severale la black lobulated tumor measuring b s em which was implanted on the lesser curvature b a pelicle The growth was remo ed tog ther with the wall of the st much where the base of the pedict wa attache? There were no ulcerate n of the pastric mucous in inbrane but two perforats it of the stomach wall lead by sin ses to the intere tof the tumor. The sto nach wall was losed with a lk. The continuous perforations wer found char ted b normal gastric mucous membr e Th tum r was violet and and eater m ly soft and consulted of coll ilke gelatinou tran par nt m ees The m cr rotic li gnos was bir el ma In the u hors on n on the turn r arose from the heath I the panetal untatheti syst m of the lase M LTE C I TRET MI ruti sture

flarem on Pol roga tric Cancer Ca tropylarec tomy Cure De elopen nt of a Secondary Cancer of the Brea t Three Years Later in th Absence of Demon trable Recutrence in th Stomach the form the gator beet the gut of beet to gue des rependents of a full to the second distributed for a full month their second forea full month their second for a full month their second for a fu

twomanasser of whith rio chali sears pres usl wa ulterted to a B Broth II

operation for pylorogastric canter developed a seco dary growth in the right I reast with enlare ment of the glan is in the sxills and subcla scular space and s elling of the right arm. There was r. dige tive disturbance or alteration of the general con litt n to indicate a local recurrence or b patie of general metastasts. However a histological studof the rap ils exten ing br ast tumor to M netner h wed characteristics manifesti secondary which lem in trate I that the tumor was a late develop ment of a graft I gastric cancer at the level of the

The auth r cons lers the case unique because of (1) the except; and site in the brea t of a metastati gastric cancer (a) tl late at pearance of the meta. tas s and (3) the absence clinically of local recurrence W tren C Berger MD

koennecke W. Spa tie Beu Spa tisch i Beu If A med If A A tost ha of

The author reports eight cases from the Coet tingen clinic. Six of the patients were w men s were in the sixth lecade of life by asti ileus resembles an obturation ileu m re thin a strangulation ileus. The oneet i acute or sul acute an i tie pi ture i typ cal of oc lusion with retentin figurant comiting. The fin lines are real to of the intestines vi. ble peristalsis metall c noi es mete rism an la palpable liver. The pulle is a gall accelerated but the general on bitton a on the while not greatly d sturbe! At operation a circumscribe l'intestinal pasm a funt This may be si gle a lofe n si lerabl extent or multiple in ring f rm It may be present in the I rge or the smill intest ne The sigmoi ni the descening colon are affe tel se ; frequently. The pr gnosis is not unlay rable in it of the author's ca es simpl I paret m w s su" cient to effect a cur However the lit rature c tains reports of sea n wh h is was prees to !

est blish a façal f stula The a se of the could no obscur lath 1 t analy it may be reacts of them sinter cpl x s to irritation Injuries I th abil min 1 wa'l or intestine may cause a charnt tion. It is got !! I that irr tal ve stimul may be tran mitted t th intestir through the sympathetic rervous sys tem I heat so of the part placed by the s m fith tie nerso a nem refath m I h ners n the chi freegi har s Jeger Prac s ar i hi ti have reported c ses of 1 to theu to while he he cells place on 1 in ma f f mm tor tis ue Th uth the obsert Itm r w in which il could be a uned that the fit ileu resit linflamm tors chinges in the pin of th ecebac glau (pr er titl daga tr u er tet frating int the pin rea . In ard 1.11 posso I may be there as e. M. r. e.1 Mosse f and charges n the cr t fl xu n ave of le i DO N.D. Z

eu w es pensen with a nital? 0.41 emmitheri ner + tm fathat n is not a

LODGER STATE OF C3 4C

Andrews E Duodenal Hernia-A Misnomer

Mountain gives nine fossæ about the duodenojejunal juncture (1) the superior duodenal 2) the inferior duodenal (3) the paraduodenal (4) the mesocolic (5) the mesenterico parietal (6) the po te rior duodenal (7) the recessus intermesocolicus transversus (8) the duod nojejunal and (9) the infraduodenal \os 1 and 2 or their combination are said to be the anlages for left duodenal herma to s that for mesocolic herma and No 4 that for night duodenal hernia. It seems generally agreed that these small peritoned pouches are the starting points of the large hernix Trentz states that the factors essential for left duodenal hernia are the presence of a fossa and its boundary folds the pres ence of the inferior mesenteric vein in the fold and freedom of movement of the small intestines which allo s them to enter the hernial sac Moymhan believes that the gradual increase in the size depend on the layer of the retroperstoneal tissue and the ex tensibility of the perstoneum

The author does not accept these theores of the mechanism of development of duodenth hernia Facts seeming to disprove them are that the pressure in the peneral adobtumal civity, can never rise higher than that in the pough, that there are hundreds of similar or large fold which do not cause hermia that usually the herniation; total or subtotal that duo denal hermic have been found in the newborn that the contents of the hernia are always the small intesting never the omentium and rarely any viscus (unone case reported the saccont uned a contents of the large bowel) and that the contents of the

generally adhere together

Andrey s believes that duodenal and also pericacal hermix are simply and rationally explained on the basis of congenital anomalies in the dev lopment of the perstoneum Duodenal he ma he claims is due to the imprisonment of the small intestine beneath the mesentery of the developing colon. If the rota tion of the umbilical loop was not completed pos sibly because it remained outside of the body too long or became involved in the opposite twisting of the cord or if the persistence of the allantois aspro longed the cacum would be superior to the small intestine and upon growing toward the right the small bowel would becom aught in the mesenters of the colon. When the mesent ry became dherent to the right posterior abdominal wall the impr n ment would be complete. The sac located on the right of the duod num with the superior assent ric an I sleocol c arteries in the free edg I the anterior fold of the n ck of the sac ould form r ght duode nal herma I eft duodenal herma is merel higher degree of the same process The herm 1 ac is to the left of the duodenum and the free edge of the s c contains the inferior mes nteric art r and ve n be t een which lies the hernia The umbilical loop has not rotated or has rotated in the wrong direction the cacum is at first to the right of the midl ne in the lower abdomen with the colon extending directly to

the rectum As the colon lengthen it forms a loop When the cæcum seeks its primitive position in the left upper quadrant the mail intestine is caught beneath the mesentery of the descending colon. The inferior mesenteric arter; hes in the free edge of the

sac vith the vein above

In 1006 Movinhan collected seventy four cases of duodenal hernia fifty seven vere left and seventeen right. The author adds to the Moynihan group twenty one cases Since 1906 Andrews has collected analyzed and tabulated sixty one cases of which thirty four were operated upon with a mortality of as to so per cent. In some cases adhesions prevented any attempt at reduction. In a few patients the symptoms were incidental and did not warrant radical treatment. In most cases the reduction The ring cannot be enlarged be proved diff cult cause of the blood vessel Loosening of bon el adhe sions has resulted in tearing the intestinal wall and requires considerable handling of the intestine v hich causes intense shock Fatalities were due generally to perstonitis or shock Only one case was diagnosed before operation

In most of the cases there were no symptoms and the condition was di covered accidentally at post mortem examination or during laparotomy for some other condition. In the cases with symptoms there was usually a history of several croses of acute licus in this shock collapse woming it ympanitis and obstipation. A phipable mass was noted in a substitution of the left side.

WAITER C BURKET M D

Cotte and Carrise Chronic Occlusion of the Duo denum by a Meseneric Band in a Case of Gas troptosis. Cure Effected by Duodenojejunos tomy Secot dary to Gastro Enterostomy (O i hon qued d odenum parl o de mése té q ch un ptosque que son par l duodé o-jej nost me condaire à 1 g tro-e té tomie) Livo ch q 3 778

The authors report the history of a patient who first complianced of vomiting and gastic distres in 1918 following gas poisoning. Since then he hal been free from symptoms for only three short pe nods. Y ray examination revealed a dilated and plosed stomach and slight pioss of the colon. Y r gime of rest in bed, diet and alkalies gave no rehet?

In anterior gastro enterostomy was performed but the attacks of somiting continued. The somiting is a preceded by a feeling of engastric tension and n uses. The somitis was liquid and very bundant it contained not only material recently integrated but also the products of gastric duodenal and hepatic secretion. Via examination showed the anastomosis to be functioning normally. Explorators laparotomy re called a mesenteric band strangling the floodenum. The duodenum to the right of this band was greatly dilated. A cure vas effected by a duodenojejunostomy.

LOYAL F DAVE MID

sion of the Duodenum in Visceroptosis Based on a Study of Twenty Eight Cases V g ! M W th 1923 1, 591

In the area where the duodenum is crossed by the mesenters and its blood vessels it is normally slightly constricted Just posterior to this point the aorta and vertebral column form an unyielding surface which acts like one lever of a nuteracker riorly the firm mesenteric vessels form the other lev r It is obvious that any unprotected downward drag on the mesenter, and its contained vessels will tend to close these levers. This is what occurs in visceroptosis In the presence of ileal stasis and

constipation increased weight is added to the pull In the majority of cases there is persistent or recur ring vomiting and generally this is associated with nausea As the obstruction is infrapapillary bile is often found in the vomitus. As a rule this s gn

appears very soon after the ingestion of food Luigastric distress or pain flatulence and a sense of fullness are common The pain may be referred to the

right costal margin or may simulate that of ulcer Constipation occurs in the majority of ca es the stools are normal. The subjects are always under weight and the majority are young females Vague symptoms of a toxic state such as headache and general weakness are common

Physical examination re eals little but ther may be slight tenderness in the epigastrium and some times a sense of resistance above and to the right of

the umbilious

Careful gastro intestinal \ ray studies with good technique and vigorous manipulation in an attempt to fill the dilated duodenum will confirm the diagnosis in practically every case. It must be remembered however that the condition is often periodic and if the patient is free from symptoms at the time of the examination no abnormality may be observed

In the treatment the first essential is rest in bed in the prope position with the foot of the bed elevated One hour after each meal the knee-chest posture should be assumed for twenty minutes. In add tion e ercises to strengthen the abdominal muscles and abdominal ma sag are beneficial Measures should he taken to overcome the cons in tion but strong purgatives should be avoided. The pat ent should make every effort to put on additio ial fat

In the few cas s in which these measures fail sur gery is indicated Gastro-enterostomy is useless Du odenojejunostom) was first done by Stavely for this CL YTON F A DREWS MED condition in roro

The Surgical Treatment of the Finsterer H Non Resectable Duod nat Ulcer Res ction of the St m ch to Exclude the Ulcer (Zu h ur stochen B ha dl ng d s m ht res 21 rb Mg sekt n ur A haltung d

The author discusses the question as to the best operate e treatment of duod nal ulcer Ten years ago Kuettner considered simple gastro enterostomy

the method of choice in cases of stenosing ulcer and gastro-enterostomy with exclusion of the pylorus the method of choice in cases of non steno ing ul Von Eiselsberg preferred unifateral exclusion

Resection of the ulcer v as seldom considered Today the technique of gastric resection has been improved to such an extent that there is little difference in its mortality as compar I with that of simple gastro

enterostomy

In order to obtain healing of a non resectable ulcer irritation from food and byperacid gastric secretion must be prevented. This is best done by means of von his beerg s unilateral exclusion. If the symptoms persist after this operation they are caused by a peptic jejupal ulcer The development of a peptic jejunal ulcer is always po sble since after total exclusion the hyperacidity pers sts and the acid gastric ruice flows directly o er the tender jejunal mucosa vithout pr vious neutralizat on by duodenal secretion and bile. To prev at this the author for the last seven and a half years has com bined von I iselsberg a unilateral exclusion with gratric rese tion. The r ults have been excellent and the mortality has been only 1 6 p r cent

Contrary to you Haberer's opinion the author believes that not the remo al of the pylorus but the extent of the gastric resection is of primary importance The frequency of peptic ulcer of the 1 junum is only half as great after resection fo exclusion as after Lastro-enterostomy The complaint of small stomach which is always made during the first six months disappear later provided the anastomosi is not too small The patients so treated ha e a great advantage over those subjected to gastro e teros tomy in that they can eat all food thout excep tion Since resection of a duodenal ulcer is tich nically difficult and a sociated with da ger Fin sterer considers resection for volution the be t HF11 R (Z substitute

Renton J M Th R lati nship f J | nal Ulcer to the Us of Un boorb ble Sutu es Gl g w MI gans vi

The autho peri rmed a se ies of gastro-enteros tom es on ats to learn the fate i non absorbable materials when used in the outer to of Lembert sutures He studied also specimens for chrical cases II s conclusions a e s folioi s

r An unab orb ble Lembert utur tend to work its vay into the lumen of the bowel and fin lly to be cast off completely. Du ing this pr ces it is obviou ly a source of irritat on and infection

2 It appears that this process occurs even when the mucosa is not penet ated in the inserti n of th suture. When the muco a 15 p netr ted th p oc probably takes plac more rapidly

3 The evidence th t un bsorbable utures may predispose to jejunal lice w rant discontinuing their use

4 Chromic sutures a e entirely sati f cto y for the anastomosis and do not hinder complete and CLAYTON F ANDREWS M D permanent healing

Cushway B C and Maier R J The Symptom atology and Radiological Findings in Chronic Appendicitis R d of gy 1923 1 212

Any one or any combination of the following symptoms may be present in chromic appendictus: ten derness in the right lower quadrant constant or intermittent pain at the sate of the appendix pain mother parts of the gastro intestinal tract fatulence constipation byperacidity retention vomiting he matterness weight loss malaises and snoreas:

The authors believe that there is a definite relationally between the symptoms and the recenting monable broadens the symptoms and the recenting regional forms of the case. In cases with dayshagia and slight pain or cillenss behind the stermin they expect to find a tendency to cardiospasm. In cases with regurgitation woming and eructation the findings are spasm of the cap and atony of the stomach with stass. In cases with malase and loss of weight and appetite there is colitis with stassias and sposs of the eleocacal valve. In those with hyperacidity and epicacactic pain and tenderness the Virgit sapt to show hyper perstalles pylotropisms and sposs of the cap. In those with generalized abdominal tenderness there is supply a retensive colitis.

In addition to these findings which are due to reflex spasm there is direct evidence consisting in localization of the point of tenderness in the appen dir fixation delayed emptying and the presence of fixealiths.

Okinczyc Hartmann Faure and Others Resection of Cancer of the Rectum (Abl t on du cancer dure tum) B ll 1 ém Soc de hi de Par 923 al x 1469

This is a report of a discussion on carcinoma of the rectum before the Surgical Society of Paris. The debate centered about the abdominal abdomino perineal and perineal routes of operation.

Oxivezve stated that the use of the abdomino perincial route is indicated particularly when the carcinoma is situited rather high in the rectum. In such cases abdominal exploration makes it possible control of the co

HARTMAN prefers to operate by the abdominal route only Through an abdominal incision he resects the upper portion of the rectum clo es the open end at the anorectal juncture in the cul de sac andestablishes a colosiomy Lovat E Davis MD

LIVER GALL BLADDER PANCREAS AND SPLEEN

llesd C. G Li er and Chronic Abdominal Infec ti n A S f 19 4 k 1 55

Since 1910 Heyd has been particularly interested in a series of gall bladder cases that have exhibited

unusual and peculiar postoperative complications. The most common complications which are clear cut and distinct are divided by him into two classes (if) those that occur in the first twenty four hours such as hamorrhage shock gastire dilatation and embolism (2) those occurring in the succeeding forty eight to sevents two hours and due to infect ton causing peritonities and later absects formation.

Occasionally following operations on the gall bladder and biliary system and more rarely follow ing gastere or intestinal surgery. Heyd has noted three clinical states which cannot be attributed to any of these factors The first occurs in patients who have been subjected to comparatively simple gall bladder operations the surgery having been limited entirely as a rule to the gall bladder and the appendix These patients are obese and have a long history of gall bladder trouble Examination of their blood and urine before operation showed com petent renal function Following operation they never completely emerge from the anæsthesia. For four to six hours after they are returned to their beds they remain in a semi-comatose condition with carphology and subsultus tendinum which finally pass into coma and death

The second condition is different in all of its mani festations As a rule the subjects have had a very severe type of biliary infection and a hi tory of taun dice and previous gall bladder operation. Following a choledochotomy ith drainage of the common duct the postoperative progress is satisfactory for about thirty six to forty eight hours At the end of that time they become testless and nervous and soon pass into pronounced vasomotor collapse with coldness of the extremities The condition is not associated with gastric dilatation and there has been ample renal function The intravenous administra tion of glucose and saline solution and the Murphy drip with tap vater usually bring about recovery These sequelæ the author attributes to the liberation of a pancreatic toxin without adequate liver protec The first group he attributes to a postopera tive acidosis incident to the poor metabolism repre sented by chronic bihary disease plus anasthesia and survical trauma

The third condition presents a still more difficult phenomenon in that it occurs in patients who were apparently progressing favorably up to the end of two or six days after the operation. In these cases there was a chinical picture of calculous cholangeitis there was a chinical picture of calculous cholangeitis managerate. The carely malignancy of the head of the particular carely malignancy of the head of the care to perform the carely days occasionally ten days when the jaundice is constantly diminishing the patient becomes sleepy passes into coma and dres. Some of these cases at operation has tas bon an what bile.

Heyd undertook a three fold study (1) a critical study of all organs exposed during the course of laparotomies irrespective of the abdominal condition (2) the removal of a portion of the liver from

both the right and the left lobe when possible (3) a pre operative and postoperative study of the blood in relation to the kno in elements of blood chemis

In catarrhal types of appendicitis and cholecus titis inspection of the liver re ealed a thickening of the capsule with occasional adhes one thickening of the anterior border crenat on s elling and surface dimpling. In localized gall bladder di case, the changes in the area of the gall bladder region vere more intense than el ewhere and the qual ty of the change varied inversely with the distance from the gall bladder Microscopic examination showed sub scapular lymphocytic infiltrat on and intercellular infiltration If there had been an acute inflammation of the gall bladder or appendix Jeucocytic infiltra tion would have been merged with lymphocytic mfiltration

When the abdominal condition was essentially chronic the surface changes on the liver became more and more diffuse an I there as an incr ase in M croscopically the lver the size of the liver changes in the more chronic cases repre ented an advance in pathological intensity with the chronic

ity of the abdominal conditions In some cases it was apparent that the force of the affection was spent on the originally infected vi cu remote from the liver in others that it was exerted mainly on the liver and t a l ss degree upon the The macroscopic cha ges included h er VI CUS hypertrophy sometimes variation in color and the cond tion of the capsule the resence of adhesions retraction and crenation of the edges disposition of the fibrous elements over the superior and v ntral surface of the liver and an intrahepat c increase in the fibrous tissue elements as evidence I in the les sened to dency of the liver t tear The capsule of Ch son na thicke ed. In a third of the c ses there we e adhes one bety een the liver and the anterior abdominal vall. The fibrin and calcium conte ts of the bloo I were then the normal limits

long L. Dies M D

Schupfer Cholelitli sis with Spec al Ref r no to Billary Infections and Pancreatic Complica a # le guardo all tion (Sall e lit af as bil an ed alle ompli Rf mamd o23 'ti 17

Important factors in the formation of bilia v cal cul are infect one of the bil a y p sages a d changes in the chole ter n contents As yet however we do not know definitely the primary cause and are unable to e plain the arrest of de elopment of cal cult or the ons t of a bil ary col c Nor has a at a factory explanation been fou d for the fact that only certain periods in life a e potenti lly lithogenic However it is certain that a pa ticular co stitution and disturbance of the n ryous system are factors that must be cons dered Importance must be as cribed to the p e ence of a morb d state results g f om a persistent low grade toricity in the bood and to the invasion of bacteria such as the typho d and th colon bacillus and in le er degree staj hylosoc streptococci and the organisms of influen a

Drainage of the duodenum may aid in establishing the presence of infection in the biliary passages but for an accu ate deduction patency of the ducts is essential The presence of bile fluid rich in pus cells and albumin is ind cative of a fect on but no impor tante is to be attached to the p esence of choles terin bilirubin and calcium crystal in the duodenal fluid nor to the so called granules of Petry Draining the duodenal fluid is often of value in th identification of the bacterial flora causing the infection of the b hary passages but often the duo denal fluid is sterile in the presence of a clinically active gall bladder infection. This is due to com plete stenosis or occlusion of the ducts i hich inter feres with the pass ge of the infected contents Provocative doses of magnesium sulphate of peptone or of hydrochloric acid often stimulate an abundant flow of bile but this cannot alw vs be considered as com ng from the gall bladder Morcover the provo cative reflex caused by these substances is rarely observed in the present of cholelith as a nd its ab ence is not positive proof of obstruction of the gall bladder

Bacteriological t sts of the duod nal fluid are of e eater value in these cases of cholelithia vided there is a concomitant hype chlorby dr normal acidity. In cases of hypo-acid two achyla it is of value only when the bacterial flora of the duo denal fluid is not the same as that of the stomach Befo e d fin te conclusions are dra n from th bac tena isolated from the duoden If's d the ag latina tive power of the patie t's serum on these bacteria should be tested

Col c and jaund ce do not ne essa ils mea b liars sto es sth may be f gastro entene or appendicu lar origin. The association of blary stones with gastr culcers and append citt isn tv ryuncommon The present of so call d blary gavel in the

faces is of little value in the diagnosis as smill sano aceous abstances a e often found in the fæc s part cularly following the use of our e oil

Cholehthass may interf re ith the norm l motility of the stomach producing the chl rhydria or a hypochlo hyd ia atonicity of the pyl ne sphineter or gastrosp sm In such ca es there may be colic attacks of purely ner us ong a d these may de elop e the l'elore or alt r chol ecistectoms. Such atta ks are more apt t de el p in the asthenic type of pers n and ar in a ay an logous to the gastric cris s of tabes. In ascs f atype al cohe attacks it i ell to determine the biliars origin this appears v th mu h greater r pid ty and reaches a gre ter chrom tic inte sity whereas then the colic to due to other auses the eact on mu h more sluggi h and the chrome tic hange is of transient nature. The val. e of hypercholesteræmia as a diagno tie i dex is unsettled tion has not as yet been sufficently perfected for the diagnosis of all cases of biliary stones

Cholos, stitis may clear up sport, meously In some cases the bulant prages may become steno et and contracted to such an extent that deep palpaton falls to reveal its presence even during an acute attack. The gall bladder may become necrosed ulcrated and occasionally perforated. More commonly however an empyema of the gall bladder trealls or in conditions of marked chrometric hydrops but infrequently plauses on the right safe month to the market and the mount in the market and the market and the mount in the market and the market and

In cholchthiasis of marked chronicity cicytriza tion and retraction of the surrounding to see may lead to partial stenosis of the duodenum Cancer of the biliary pas ages is not a frequent de elopment follo ing cholelithiasi Lancreatitis particularly of the chronic type is a frequent complication especally when the stone 1 in the common duct. These infections localize primarily in the he d of th pancreas and spread either through the circulatory system or lymphatics or by penetration through the diseased wall of the duct. Anomalies of the ducts of Wirsung and Santorini may favor the de elop ment of a pancreatitis. The diagno is of chronic pancreatiti depend on the presence of a number of clinical manifestations At best it is a difficult one The presence of undigested fat substance in the faces is of doubtful value. Gly cosuma is extremely rare in pancreatiti associated with cholchthiasis

It is possible that in the occasional cas of hole lithiasis flushing the duodenum with magnesium sulphate peptone or hydrochloric acid through a duodenal tube may prove helpful but no substance is known that will dissolve stones in the biliary pas sages A gall bladder hich on palpation appears enlarsed because of intection or the presence of a stone but which causes no amptoms need not be operated upon except in the cases of persons who have repeated infections Immediate op ation during an attack of colic is not necessary unless there are symptoms which indicate that life is in jeopardy Patien s subject to biliary colic w thout serious com plications ought to be treated first m dically Opera t on need be considered only when med cal treatment has failed or attacks of colic appear ath incr asing f equency or are very severe or in the absence of tolic a d stressing dyspepsia develops

Operation is the metho! of choice in the cases of patients who cannot unde go prolonged medic I t eatment and who cannot adhere to a strict dietars regime In no ca e shoul I oper tion b postponed too lon as severe complications may et in In cases of acute cholelith asis operation and cated only when there are grave complications such as emprema or gangrenous changes others i e m dical treatment 1 preferabl In chron c mp ema oper t on is always indicated. In acute occlusion of the common duct mmediat op ration is not necessary ba if the occlusion pers sts and jaundice and fever re marked it is best not to delay operative measures long r than ten days If fe er is absent o sight a dela) of from one to two months is best. In cases

omplicated by acute or chronic pancreatitis opera-

Operation is usually contra indicated by marked obesity advanced attenoselerous cardiorenal disease particularly in alcoholics diabetes and chronic bronchitt but should be performed irrespective of these condition of the symptoms manifest severe disease of the gall bladder

Recurrent attacks of pain following operation may be due to stones that were not removed addressors an irritable condition of the upper gastro intestinal tract an undiagnosed duodenal ulcer or rarely chronic appendic its lichylaig gastrica noted after cholecystectomy i not a postoperative condition

JAMES V RICCE M D

Gibbon J II The Contra Indications to Chol ecystectomy 4th nt c M J 924 vn 196
Decker II R Recurrent Cholelithiasis Ithanii
If J 194 vvv 198

In the griat majority of cases the removal of the gall bladder is preferable to dramage but it is a serious mistake to do a cholecy stectiony in the presence of contra indications. Cholecy stectiony is contra ndicated in nearly all cases of normal gall bladder and in the majority of cases of acute infection with jaunduce. In these dramage alone is far safer even though a second operation becomes nece sary later. In most cases in hich stones are found in the common duct or in the common and bepatic ducts or sand or mode are found in the common duct or in the common and becomes of the common duct or in the common duct. On the common duct or the terminal por common ductions of the common duction of

In approximately 8 per cent of cases operated on it assessed the biliary tract symptom return and a secondary operation is necessary. The usual causes of this secondary morbidity are cholecystitis and hesions and calcult. Calculu far found in 30 per cent of such cases but a e true recutrences in only 7 per control cases.

The gross character of the stones may indicate hether they are recurrences. The bronn soft graular bil rubin stone is usually found in the duct and 1 apt to be quickly formed while the white faceted cholesterin stone requires a long time for its formation.

The symptoms and findings in cases of recurrent choleithias's resemble those of the primary dr case depending of course upon the location of the stones and the condition of the gall bladder and ducts. The ultimate prognosis is favorable although the operative mortality is 5 per cent which is two or interesting the mortality of primary operations.

The factors respon tible for the recurrence of gall stones are infection and bile stass. Infection favor the formation of stones by pre spitating the bile stand by forming large amounts of mucin while stass is responsible for incomplete execution of bile from the tract and favors precipitation and in the presence of the gall states of the presence of the gall states.



In his early cases McCracken operated imme distely as soon as a diagnoss was made. He now treats each case according to its particular indications. The degree of shock the condition of the blood and the patient's general condition determined the line of treatment. If the degree of shock is not great to allow immediate operation the patient is put to hold with blankets and warm water bottlet with the condition of the patient is a superior of the patient in the patient is a superior of the patient in the patient is a superior of the patient in the patient is a superior of the patient in the patient is a superior of the patient in the patient is a superior of the patient in the patient in the patient is a superior of the patient in the patient in the patient is a superior of the patient in the patient in the patient is a superior of the patient in the patient in the patient is a superior of the patient in the patient in the patient is a superior of the patient in t

One of the treaty patients refused operation and was taken from the bopstal before any treatment had been gi en. Of the remainder Spercent recovered of those who dred five acte operated upon and to of the e died on the operating table. You to those who died we recipitured in transact or automobule accidents or in falls from the second or third floor of a building. Of the patients injuried by swault and faittery 80 per cent recovered of the e will trainest and automobile injuries. So per cent recovered of the wall trainest and automobile injuries. So per cent recovered of hamoglobin and blood pres ure and increasing thirst are strong indications for operations.

McCracken come to the follo ing conclusions

I Rupture of the pleen in China is greatly necessed by modern of ilization

2 Immediate operation 1 not al vays ad isable 3 Usually splenectomy is the operation of choice but if adhesions prevent removal of the spleen bleed ing may be stopped by packing

4 Great care should be taken not to injure the tail of the pancreas

5 The left rectu in ision is the incision of choice of In a country where large spleens are common rupture of the spleen should be thought of in all cases of injury to the abdon en follo ed by shock and hæmorfhage J is L Diss M D

MISCELLANEOUS

Richards L C Non Traumatic Hernia of the
Daphragm An Embryological Viewpoint
An Oil Rh | & L v z l 9 3 x 45

The author has collected all the cases of non traumatic herma of the d aphragm which have been reported since 1000 and has tabulated those reported previou by by Thoma and Grossa.

Follor ing a description of the an tomy compaative anatomy and embryology of the diaphragm haphragmatic hernia, are classified as follows r True hernix those with a hernial sac

a Congenital present at birth
b Acquired (1) through the natural open
ings usually cisophage41 (2) elsewhere

traumatic and non traumatic
2 False hernix those vithou a hernial sic

a Congenital

b Acquired all traumatic

The factors involved in the etiology of these har nix are as varied as the types themselves and differ according to the location of the herma. In general they may be divided into to main classes intra fittal and extrafetal. These are discussed at length

The aortic opening has never been known to be the site of a herma. This is because it is behind the diaphragm and because its ring i ten linous not muscular and attached closely to the vertebre by the crure on each side. Neither his a herma ever been found in the quadrilateral foramen through which the inferior vena cava passes

The various herma sites may be divided as follos anterior central posterior exsphageal others. Any of the fir three types may be right or left the latter 1 the more common. The characteristics of herma in the e different locations are described.

Lacher states that the only viscera which have not been found in the chest cavity at least once are the urogenital organs and the rectum. The stomach is the ofern involved most frequently.

A surpris agyl large number of these herms in adults have been discovered accidently at autors; and were enturely unsuspected during life. As long as there is no strangulation the condition is not incompatible with life. Most newborn infants with posterior defects and no sac die shorth! life britch burgety is most successful in cases of herms through cases. It is the contract of the strangular through the contract of the strangular through the strangular

Eventration is not a true hernia but a thinning out and veakening of the musculature of the dia phragmon one side usually on the left which causes the done to rise high in the chest. This condition may be congenital or acquired acute or chronic. The author reviews the vitious theories as to the

The article is supplemented by numerous tables and diagrams illustrating the important points in the embryology of the parts involved

CLAY ON F ANDREWS M D

GYNECOLOGY

UTERUS

Ferguson J H A Note on the Relative Merits of Operations on the Round Ligaments for Retroversion of the Uterus with a Suggestion for a P october for increasing the Scope of Useful ness of the Alexander Adams Operation J Obic Come B i E P 1913 ave 332

The author states that pessary treatment is little more than pallati e in retro erson except in the puerperium when a pessary judiciously applied and worn until involution is comple e not infrequently effects a cur-

Not every retro ersion requires treatment. The cases demanding attention are those of fixed retro version those of retrover ion a ociated with some degree of prolapse tho e in which the uterus s bulky and hose of uncompleated retroversion as ociated.

ith sterthty in which no other cause for the sterthig can be detected. Unde normal conditions the round ligaments act as a delicate barsy mig and by their greatle extraining action on the fundes main tain the balance of anteversion. This restrain makes it po sible for the int a addominal persus on the p sterior interne wall to keep the b dis of the uterus for; a d. Th. associated action of the ute o sacral and broad ligaments is also of great m portance.

The stronge t portions of the ligaments are those within the abdomen. In all cases in whe chit her cound ligaments a cope attention correct a retroversion of it is essential that the damag depile shoor be repaired by a plastic operation. Gill am's operation when successfully performed, deep it buteries veliantes, ted but the author has seen some case in which that did to taud the it in ofpig in ny. In Ferguson's opinion those operation for greatly decreases the "oblitty of the uteries. M to cet it is often followed by severe pain lasting fr quently for several days.

The Bald Web ter or sling ope at an has the advantages of simple ity but renders the str g st part of the round I gamer tous less

The At awder telems operation or ext ap rito neal rether of shortening the round ligaments has fallen into the face of the face telement in fallen into the face of the face o

The author performs an Ale ander Adams operation with a trinsverse net on of the skin and verucal incision of the fascial nd puriton um. In this method tens on on the round ligaments from above renders their recognition at the external rings comparativel; easy with little opening up of the inguinal canals. The pilvi contents are explored through the incision addressions Inseased owaries or tubes and the appendix if disea ed are dealt with as required and the retroverted uterus is liberated if it is bound do in. Next the lo-cr skin flap which has already been partially detached is reflected still more and publics downward with a retractor. The e-terded the desired are the content of the condefined as in the ordinary Alternative open content of the con

Commandeur and Eparvier A Uterine Fibroma Simulating Int rrupted Pregnancy (Fib om ute in 1) nt 1m 16 u gro cs 1 t rr mpu) B U S d b t t d gym' d P 1913 xu 559

The patient a nullipara 48 years of ag came under oh ervati n December 1 1922. Her lat normal m nstruation occurred December 18 921. These was no hi tory of menorrhagi or met orsha

After 1 o months of ame or hers the records again became reguls but the flo was stamly From May until September the beasts a rataned mil. Addominate Integreents had been progressis e. A dagnoss of pr gnanov had been made by several doctors and mads we but as labor failed to occur the patient consulted other obstettic ans and naily ar ived at the Lyon. Vaternity Hospital There a duagnos so interrupted pregnancy at the sixth month was made.

On January 14 membranous dibris was expelled.

The height of the fundus was 19 cm. The body of the ute u was smooth and of uniform consistency. The cervus was soil on the surface and cone sh ped Fetal heart sounds set i parts and a pl cental brust ve. unot d tected. Roentgenograms were negative for at 1 tal skeleton.

On Febru ry 4 colicks pa no occurred with the ds harge of blood tained mucu and with uterns c nirat ons. Ergot and p tuitra were given to flavor the apparent o s to flabe. The ante ion lip of the cervix seemed to thin alghily. After features without result operation was and seed. This was refuse I and the patient was not seen for five months.

When she aga a sought te tmeat the end of that tim the cervix had be ome effaced and a hard smooth oun ted mass was felt in the canal A diag noss of fibroma of the uterus was made. Op ration revealed a un formly enlarged uterus containing a large numbe of fibroid one of which extruded to the cervical c nal

ALB R F D GROAT M D

De Vega Barrera R A Suprapubic Abscess Fol lowing Roentgen Treatment for Uterine Fibroma (Absceso up púb c consecutivo a la raloterapia por (b m dl ut ro) log d la

Madrid 1923 XXV 641

The author's patient was a oman 303 ears of age The technique followed in the roentgen treatment was that of Seitz and Wintz four irradiations sepa rated by intervals of two months The roentgeno therapy cause I castration an I complete cessation of the hamorrhage due to the fibroma but al o pro luce I a large suprapubic abscess in the subcutaneous cellular tissue. I ollov ing drainage of the ab ce s the nationt made a rapid reco era

In the author's opinion coentgen treatment i contra indicated in cases f (1) suppurated or gan grenous fibroma (2) t broma a companied by inflam mation or a tumor of the adness (3) submucous pedunculated fibromyoma partially or totally ex truding into the vagina (4) very voluminous fibro mata or those which cause empression of the bladder W A BRE

The Application of Radium in Bowing H H On rable or Borderline Cases of Carcinoma of the Cervix Uteri Before Operation Rad 1 gy 1023 | 100

Early carcinoma of the cervix is a rare chinical finding. A bimanual examination alone howe er carefully performed is not sufficient for the hag nosis The knee chest position Sims speculum and a direct light are most helpful and should be u e i routinely. I roper biopsy material should be removed for study at the time of the rad um applications

If the lesion is adequately treated ith radium and the interval bet een the first application and the total abdomin I hysterectomy is suff sent ar cinoma cells will not be found on microscopic stuly of the specimen removed. As respone to relium varies in different ca es in livi lual tr atment must be given. In cases of early curcinoma the mo t desirable procedure seems to be the introduction into the anterior portio of the e ical canal for fourteen hours of 50 mgm of ra hum in the universal tube applicator this to be rejected fou times at intervals of three days and f llowed by tot lab dominal hysterectomy in four to six w ks from the time of the fir t application

As a pre oper to procedure irradiation radium i by all means the surg on a most effective method It destroys the ne pla m and c lls forth the natural lesense mechanism of the body cases of primary carcinoma of the uterin cervix this treatment loes not nere the diffculties of operation

A total ab lominal h terect my following the radium treatment is a ju tifiable procedure sin deals most effectively with the local pathologic c r lition and also with other pelvic lesso that may be foun I at the time of ope ation

ннвитемв

Systematic Employment of Micku Faure J I licz Drainage in Hysterectomy for Cancer of the Uterine Cervix (L. lang vstématique à la M chulic da s l hystérectomie larg pour cancer du clute) Bll Scdob! td ry &c d P 1023 Xt 521

I one duration of the operation and infection con tribute to the mortality of uterine cancer and the frequency and severity of infection varies directly with the duration of the operation. Statistics differ widely many surgeons reporting a mortality of 20 so and so per cent When the op ration lasts three hours all nationts succumb an I when it requires two hours many accumb but when the time is reduced to one hour the mortality a generally about 10 per

At arious time th author's mortality has been to to 2, fer cent In 1 seri sef sixty seven ca es in the h Mickulicz trainage tas u el there were only tw leaths a mortality of a precent

The Mickuluz I am vas used even when roo l perstonization a pos il le and was removed gradu ally the r trining piece of gauze coming out the tenth las

Rest 1 as uring thorough fraining the method h s the a lyantage that time can be saved by leaving hæmo t is in I lace and closing only the upper por

tion of the oun ! The grass of the operation thus parallel that of hy terect my for fibroid

COLVELAIRE in di cussing this paper advocate l Mickul cz drainage follo ing hysterectomy per forme I in ol sterrical conditions

MERT F DE CROST M D

ADNEXAL AND PERI UTERINE CONDITIONS Wahl т Tuberculous Salpingitis Su f

1 fm 923 1 1557 (reenberg found tuberculosis of the tubes in

nearly 1 per cent of gynecological cases and reporte ! that of every thirteen al normal tubes removed one as tul erculous Statistics regarding the frequency of tul erculous salpangatis show considerable variation This is due in part to the fact that a microscopic examination is not always made and without a micro scopic v mination the diagnosis is often impossible Williams showed that 5 per cent of his case of tul ercul us salpangatis were not recognized on mac roscopic examination. Of 216 pathologic tub s removed in the past four years eleven were foun! to be definitely tuberculous and in only three of there is the condition definitely recognized at operation Of these eleven ea es only one was sus pected chineally

Tuberculosis is much more frequent among col ored women than among white wom n Tubercu I us sa ningitis occurs usually during the period of great st sexual activity but the author had one patient with the di case at the age of 15 years. The frequency of tuberculous salpingitis during active sexuall fe may have some lirect relation to the alter

428

nate congestion and anamia of the tube occurring with each menstrual period

Congenital maldevelopment of the internal geni talia seems to predispose to tubal tuberculosis Mer letti found twenty eight cases of tuberculosis of the uterus in eighty cases of hypoplas a In a large per centage of the cases there is a family history of tuberculosi Greenfield reports that a positive family hist ry is given in 22 per cent. In three of the author's eleven cases either a brother or a sister had d ed of tuberculosis. Six of the patients gave a history of sterility The frequent association of sterility with tuberculous salpt gitts has been noted by others Whether the sterility is due to the tuber culosis or predisposes to tuberculosis is et to be determined but in Wahl's opinion it is improbable that there is a definite connection bety een the two In a large number of cases the onset of the disease is said to be associated with some phase of

uterine menstruation Two points on which there has been a good deal of controversy are first y bether the tuberculosis is primary in the tube and second whether the con dition has any relationship to tuberculosis of the perstoneum It is generally believed that primary tub reulosis of the tube is possible but very rare and that the tube becomes infected usually by way of the blood stream or by the extension of a process in the peritoneum. It is probable that the latter process 1 m re frequent than the former but here again there is a great deal of diff rence of opin on Hamatogenous infection w uld b dependent upon a primary focus some here else in the body from thich tubercle bacilli escape into the general blood stream. The objection to the theory is that in many cases of tuberculous salpingitis no definite primary focus can be found but it is well to bear in mind the f ct that failure to demon trate a primary focu does not exclude the existence of such a focus since it may be too small to cau e physical signs. In some cases a tuberculous salpingitis may cause n infec tion of the peritoneum

Tubernilous salpingitis is a ually bilateral but occurs mo e frequently on the right side than on the left. The tubes are more 'requently the site of tubercu s than any other port on of the femal The uterus is affe ted next mo t fr

on nth, and then the ovar)
In a certain group of ca e of tube culous salping this the picture is that of chrome the cleening of the tube such as is caused by other forms of chrone as pugg its and cannot be dist oguished from that of chrone popeage indection. In another group of c se it resembles an ord, any the superstanding the control of the contr

may be covered with numerous tubercles This type is most frequent in cases of general tuberculous pen tonitis with secondary extension over the tubes. The most common gross form noted in the author's cases is the prosalpinx. Occasionally cystic formations may be present and often these may become very complex Apparently they arise from fusion of the adhesions present over the surface of the tube and represent secondary tuberculous inflammatory reac tions Anothe type of reaction which was strike g in a number of the author's cases as the neoplastic type in which there is an epithel al hyperplasia so marked as to lead to the formation of ade omatous structures protruding into the lumen of the tube Some of these structures are so irregular and appear so my si e as to sugg st a mal gnant change. The ass ciation between this cond tion and cancer has not been definitely established and is pr bably acc dental rather than etiological

Conditions most commonly associated ith tube culous salpingitis are acute ppendicit s e pecially

a perappendiceal reaction and denoms omata The symptoms are often very becure Usually pain and t nderness are present especially in the lower part of the abdomen but these are not seve In some cases the eas only a sussition of weight in the pelvis. Some patients complain only of a mass in the abdomen some of loss of weight with occa sional ele ations of the tempe ature and some of night sweats and chills. As a general rule severe constitut on 1 symptoms do not occur unless there is an ass or ted general peritonitis. Usually there is a tender palpable mass in the vaginal forn x Amenorrhora r other menstrual disturbance is sometimes reported Sterility is common Otten there is an obscure abdominal pain for months with pain ad ating into the lower back. As a rule there is a leucorrhocal discharge. Physical exami ation of the chest and othe port ons of the bod u u lly fails t reveal a primary focus

After remo all of the tub s the prognoss is good as long as the tuberculous process is I m ted to the pel c adness but becomes grave when there i acti e tube culosis ele here when there is a pre-oper ti e ele ation of tempe ature and when there s

exten e involveme t of the pento eum.

Perhaps the most straking chercle ists soft?

culous s lipingst a e the absence of de that two and characteristic clinical symptoms a dichercle true dichercle dic

a alcar VII

Constantint and Fulc nis An Infected Ovarian
Oyst Communicating with th Rectum
Hyste et my Cure (kyi d)

gp 6

th tubsé d i rectum hysté t me guérison)
B il d la Sac d bii i d g é d P 19 3 x

The authors report the ce of a oman 46 edd who was admitted to the hospital Mach 19 with a dagnosis of post typhoid absc ssopen

ing into the rectum. In August 1921 she had ty phoid fever a high lasted for three months and was complicated by intestinal hamorrhages In January 1022 she had a relanse with fever for a month In the spring of 1022 she noticed that the stools were blood colored the blood being bright red Later they became semipurulent and finally purulent. Her general condition was fair and her temperature nor

When she was fir t seen by the authors her tem perature vas 37 s degrees C and a blood count showed to 900 leucocytes and 82 per cent polynu clears Vaginal examination revealed a large fluctu atin mass in the left shac fossa. The uterus was large pushed to the right movable and not involved by the tumor Rectal examination was negative The patient continued to evacuate yellow pus at times this was feeted Rectoscopy was negative \ ray examination 1th a bismuth enema did not give

any information

Operation revealed a large mucou cyst in the left This was punctured and the liquid evacuated It was then seen that the cyst extended into the true rely's lifting the broad beament. large mass was found al o on the right side In the attempt to remo e it it broke and puse caped. Fol lowing its removal an opening was found in the ante nor rectal vall. This was repaired. Hysterectomy was then performed. The patient made an unevent ful reco era SALVATORE DI PALMA M D

EXTERNAL GENITALIA

Petit Dutaillis P The Treatment of Vulvar Cancer (Deux ème étud sur le t itement du a 923 X 53

Three cases of vul ar cancer are reported one in which the lesion was limited to the chtoris and nymphae and two in hich the labia majora

al o affected

The author beli ves that the vulva should be treated as a distinct organ ni rem ed a method cally as the uterus Thi blation may be done either before or after irradiat on and the exci on may be carned well outside the e ternal limits of the o gan Cancers of the vulva do not tend to spread in depth yond the urogenital fl or The author has never een a recurrence in the gina or beyond the uro genital floor. When a recu rence develops it ppears in the skin or in the glands. In the majo ity of cases preliminary irradiation is given to ste thize the tumor as much as po sible but the is more or less useless when the cancer is in its b ginning stages and more or less harmful he exuber t mas es have been formed

With regard to the length of time op ation should be delayed after irradiation the author cites Del porte of Brussels who remo es the vulva the tenth week after radium treatment at v hich time he be heves the best sterilization has been obtained

Petit Dutaillis always follows the temoval of the

vulva with deep radiotherapy on the scar even when there has been pre-operative irradiation. In cases in which primary union is not expected tadio therapeutic drainage may be established immediately after the operation or radium applied on the line of cuture

The efferent vulvar lymphatic system and its glands are very sharply differentiated. The lym phatics of the external genital organs and of the anal canal of common origin empty into the inguinal glands lying parallel and below the inguinal lie ament From there they go to the iliac glands

The iliac gland may become involved early or The propagation may occur on one or both sides of the body even though the extent of the tumor may be limited apparently to one side. This fact demonstrates the connection between the lym

phatic chains on the two sides

It becomes evident that in the treatment of this condition all of the affected glands must be removed and irradiation must be applied to the entire lymphatic current The author does not favor pre operative irradiation of the glands as this seems to cause adhesions and to render ligation of the vessels more difficult. He believes that the most simple method of steralizing the infected tumors is cauteri zation with the cautery. In brief the treatment he advocates for vulvar cancer is complete ablation of the organ followed by superficial and deep irra

The article is supplemented by illustrations show ing the methods of excising the tumor

SALVATORE DI PALMA M D

MISCELLANEOUS

Spalding A B The Incidence of Venereal Disease in Patients Suffering with Sterility C!frn Si te J W 0 3 xx 457
Pettit A V The Significance of Cervical Pathol

ogy in Sterility Cal for a State J M 1923 459 Anderson C W

The Adnexal Organs in Relation Cal f to Sterility Calf Stiel M 923 xx1 460 Tumors and D splacements in Relation to Sterility Calf State J M 19 3 2 463 Pottenger F M

What Relation Exists Between the Endocrine Glands and Sterility? C I for Stat J M 923 xx1 465 Loomis F M The Diagnosis and Treatment of

Sterility C If Stat J M 1923 XXI 466

Spalling reviewed the histories of 200 patients complaining of sterility to determine the incidence of venereal disease Of a total of sixty seven patients tested eleven had a positive Wassermann reaction an incidence of 16 per cent This is a high percent age when compared with a series of 852 gynecolog cal cases in which only 6 6 per cent of the Wasser mann tests vere positive and a series of 1151 obstetrical cases in a high the Wassermann test was positi e in only 3 7 per cent Therefore in normalla p egnant women the incidence of syphilis is about half that found among non pr grant i omen and in sterile women the percentage is higher. On four, seven cases of primary sterility in which a Water mann test was made the reaction was point e in a per cent. Of swenty women with secondar steril where had a positive test an inculation of 10 per cent. It seems justifiable therefore to conclude that sphilis is a common factor in sterility and is more frequently a sociated with primary than with secondary steril ty

With reference to the incidence of gonorthe an income with streitlit it is assumed that involvement of Skene and Barthol no glands is indicative of Gonorth val infection. Infection of Skenes glands we snoted in 14 per cent and infection of Bartholia a glands in all glittly insuffer percentage. In more than to per cent of the cases cervicils was four! and in the control of the cases cervicils was four! and in the control of the cases cervicils was four! and in the control of the cases cervicils was four! and in the control of the case in the ca

Uncomplicated retro er on is not in itself a fre quint cau e of steril t. Siteen of thirty three huslands (50 per e nt) showed a permia

I FITTI IN estigated the condition of the cervisian and the average period of tenhilish views. Of the cervisian and the average period of tenhilish views. Chromically the cervisian period of the cervisian period of the cervisian conditions and the cervisian period of the cervisian cervisian of the cervisian cervisian conditions and the cervisian cervisia

of other organs of gen ration. In one cas the cause clearly two san enforcers all of p. In fort our clears, the san enforcers all of p. In fort our clears, test of tubal patents wa mad. In fourteen unthout am of cervical infection, the tubes were f unit patent. Of thirt cases the cervical infection the tubes ere four injection into tubes ere four injection in the cases was du probable to the cervical condition.

Forts two of 1 5 wom n with law exercical inflammation were sterile. In all sattee of these called war experience of inflammation of the endome time noted in specimens by need by curetiage teams of the endome mation seemed to be the mot important single for cent. The indication is for early and through treat ment of the erevit to pre-ent local barriers to the ingress of spermation for early and through the endome through the endome of the erevit to pre-ent local barriers to the ingress of spermation that the endome through the endome of the event to pre-ent local barriers to the ingress of spermation that the endome through the endome the endome through the endome through the endome through the endome

ANDERSON belie es that the tubes and ovaries play a very important part in sterilit. Until recentl the tubes were held mainly responsible. Salpuncities is by far the m-st important factor impair ing the functional val c of the tube as an oviduct Conorth ral saip aguss more than any other type shows a t redere to become cured spontaneou h and many women with bilateral go orthoral sail p gits have recovered and ha e subsequently borne chil fren

However tubes that are severely influence or femently reinfected are any to be permanent damaged. In such cases the finishment of the permanent damaged. In such cases the finishment the tube remains onen at the abdornmal extremit but is crossed at some other point of its course. Sterniter is the role in tuberculous salpinguits. Infantili, man't be role in tuberculous salpinguits. Infantili, man't be rolled and multiplied are occus noil factors in the rolled in thilbood are occus noil factors in the rolled in thilbood are occus noil factors in the rolled in thilbood are occus noil factors in the rolled in thilbood are occus noil factors in the rolled in thilbood are occus noil factors in the rolled in the ro

the production of steril; the production of steril; the production of steril; the production of the pr

The important point in the diagnosi. I a case of tent: in which it tubes are u nected is the patence of the tubes. This is best determined by the Rubin g s in late n test. With the exception of tumors and costs of the ovan, the diagnos is of ovarian condition can be made best by careful c n.

ideration of the history

The most proming treatment fobstructed tubes ignst infittion. In a large percentage of cases plast urgical procedures are not uccessful. Conditions fithe ovary leading to sterility do not offer an attraction of the sure po-

LANCH discusses fibr d retro ersion and retro flexion as causes of tenlit About to per cent of married women with fibroid are terile tenlit is common in women with large fibro d but tis ers probable that both teril to and fibroids are due to a commo factor. A large percentage of retrodi pl. ce. me is causing no s mpt ms are of congenit longin Steni ty much more common in cases of con genital retropo tion than in cases n whi h the retrops ition has been a q ired. Of 450 women with retroflex on 28 women became n eguant but in eights this occurred while the uteru was known to be anteverted

FOTENCES discusses the relation between the endocrine chands and sterility. Genit I function is simulated by 0 man thyroid pitu tare and supra r nal sec choics. It seems to be diminished by the thymus and at times by the thyroid. In a certain group of case of sterility the 0 mr is a constant factor. O'ulation may not take place but on the other hand it may occur in the absence of mensity.

ation Hypopla ia and hypo activity of the ovaries of congenital origin are due usually to hypo activity At times the adrenals of the thyroid or pituitary

are also at fault

A very marked influence 1 exerted upon the sex organs and sex function by the thyroid secretion a decrease in this secretion in early years stunts the growth and development of the sex organs and in later life depresses the function of ovulation and menstruation in a considerable number of cases leading to sterility The influence of the pituitary gland on the sex organs is often greater than that of Hypopituitarism occurring before the thyroid puberty may cause any one of three conditions infantili m both general and sexual without dipos ity stunted growth with genital hypoplasia and adiposity or gigantism with adiposity and genital hypoplasia All of these conditions lead to ster It s not uncommon for sterility and an early menopause to follow toxem a The cause may be direct injury to the ovaries or to the thyroil a 1 pituitary

Looms are ents data on the diagnos s and treat ment of sterility based upon an analysi of 150 con secutive cases He find that the sterile v oman does not differ greatly from the average primip rous obstetrical nations in menstrual almormilities or leucorrh ral discharge but i usually about five years older than the average primipara

When cervical disease i present and can be cor rected the prognosis favorable The infantile uterus is less apt to become pregnant. In cases of adnexal disease the prognosis is poor unless opera tion is performed. Tubal inflation and examination of the woman after costus are indispensable for diagnosis and treatment. In a per cent of the cases examination after coitus shows poor few or no sper matozoa In about 5 per cent the condition is honeless H RRY W TINK M D

Graves W. P. Tl e Relation of Backache to Gyne cology B ! 11 & S J q 3 1x

Backiche abo e the sacral or lumbar egion h no defin te relationship to pel ic disease Rel ef of such backache follo ving pelvic operati na is effecte i indirectly or incidentally

On the basi of study of 500 cases of uterine retroversion the author mai tains that low back ache is very often associat d with malposition of the uterus and f equently is rebe ed by reconstructi e operations. In 76 per cent of the cases evened complaint was made of ior backache and in 85 per cent of 263 cases follo ed up the con I tion as cured or greatly rel exed by treatment

I hat backache is due specifically to certain uterine malpositions is proved further by the f equency of sacral backache 1 young nulliparous women with

retroflexion of the uterus

In cases of ret oflexion of the uterus es ential dys menorrhæa is generally felt in the lower part of the back instead of in front as in cases of uterine anteflexion

Absence of backache in the presence of retro flexion of the uterus 1 the exception rather than the rule

In cases of marked prolap e the greater the de scent of the uterus the less frequent are the symp toms of fatigue and backache Women with com plete procidentia suffer least

The author emphasizes the importance of exclud ing orthopedic errors before assuming that a back ache is due to pelvic disturbance

C FISKE IONES M D

Bergeret and Moulonguet Primary Chorionepi theloma of the Broad Ligament (Chono én théhome pr mitif du ligame t large) Gy éc et obst 1923 VI 1 528

Primary chorionepithelioma of the broad ligament a rare and little understood tumor According to the literature at has never been recognized prior to microscopic examination being mistaken for pelvic hematocele or an ankioma

The authors review particularly from the stand point of nathogenesis a case of their own and others

reported in the literature

The authors case vas unusual in that the tumor pulsated produced a thrill and a systolic souffle and by compre 1 n of the ureter a hydronephrosis

It operation marked telangiectasis was found throughout the pelvis especially in the immediate vicinity of the tumor in the right broad ligament After supravaginal by terectomy the tumor was in part remov d It consisted of a single cavity filled with old clots The lining resembled the intima of blood vessels The valls of the cavity were thin and composed of areolar tissue honeycombed by large The broad ligament showed a plexus blood vessel of the adult type of veins and arteries and in the intervening connects e tissue masses of leucocytes most of v hich were polymorphonuclears. Only a few areas of small extent showed the syncy tial cells char acters tic of the tumor the chance finding of which made the diagnosis possible Serial sections showed the uterus and adnesa to be normal Most remark able was the enormous development of adult bloo! essels stimulated by minute masses of yncytial cells In the connection the authors call attention to the theory of hormonozones of Cley

Common to the cases reported in the literature are abortion ith retention of placental fragments an l ble ding Frequently there is fever Examination reveals a pel ac effusion or a vascular tumor simulat ing aneurism or angioma Some of the symptoms and signs are those of early pregnancy viz vomit ing hot flashes pruritis and enlargement of the

The problem in pathology consists in accounting for the presence of an extra uterine chorionepithe lioma in the presence of a normal uterus and adnexa In the authors opinion the tumor developed pri marily outside the uterus from migrated elements of a normal chorion or a placental mole

ALBERT F DE GROAT M D

klaften E Biological Changes After Weak Roents n Irradiation in Certain Cynecological Conditions (L fer 1 fgr che Ver end ru gen nach Roe tg nichw chbestrahlung 1 i ng g nae kologisch 1 k kung n) Z albi f Gyn k

0 1 2 The main changes following weak roentgen in radiation of the hypogratric reg on in females are in the leucopoietic system. The appearance of large platel is and thrombopenic purpura after weak irrad ation possibly points to an indirect effect on

the spleen Werk roentgen irradiations in inflammatory diseases of the a lnext produce the same effects as those usually seen after parenteral specific and non-TRALES (C)

specific protein therapy

Mandel tamm A I The Operation Treatment of Incontinence of Urine in the Temal (Z r perati en I h n liu g der In t enti. u n bel It e) Seth dld he Ch A g P tr grad 1021

The author dis usses the anatomy of the internal aphineter of the urethra and the origin of incontinence in women espe ially after trauma. The eare various treatments but especially satisfactors results are of tame I with Stoeckel's plastic operat on

on the internal sphincter. In complicated cases (cicatrices fistulæ etc.) the pyramidalis plastic of Stoeckel or the levator plastic of Franz is used. In the cases of old women very good results are ob-tained with the Wertheim Schauta technique con sisting of interposition of the uterus with a pen neal plasti

Lifteen cases of urmary incontin are have be a treate I surgically by the author

This paper was discussed by Figurnow and

Mandelstamm of I etrograd FIGUREON has found that the sphincteroplasty of Stoeckel gives good tesults in cases in which the fundus of the bla lder a sumes a very high position When the position is low the sphineteroplasty must be supplemented by elevation of the fundus of the bla ider and its fixation by suture to the posteri i

surface of the symphysis MANDFISTANIA said that the low posit on of the fundus of the blad fer by no means plays the im portant part in the etiology of urinary incontinence that is ascribed to it. In one half of 218 plast c operations performed during the last four ve is th funds of the blad fer was found displaced downward but caused no d sturbances in urmation. Such d's tu lances vere noted only seven times

G EGO Y (Z)

ORSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Smith F C and Shipley \ T The Abderhalden Reaction Am J Obst & Gy c 1024 VII 4

As a practical serological test for the diagnosis of pregnancy would be of great value the authors attempted to modify the technique of the Abder halden test so as to overcome its manifest faults and to make it more practical One hundred and thirty one sera were tested forty three from pregnant women fifteen from non pregnant women and sev enty three from males. These tests showed that while the natural ferments present in the serum are somewhat increased during pregnancy there is no evidence of a specific ferment. The tests on the sera of pregnant women were uniformly positive but the large number of positive results in tests on the sera of men and non pregnant women proved that the test is of no value for the diagnosis of pregnancy EDY RD L CORNELL M D

Dental Care Dur no the Prenatal Period Am J Obst & Gv 923 1 737

D W RD L COR FIL M D

The fact that the teeth may be the focus of infection causing certain kidney lesions is recognized. During pregnancy the function of the Lidneys must be safe guarded Teeth showing evidence of periapical infection may be safely removed during pregnancy Co-operation of the dental surgeon with the chairsan in diagnosis and treatment is of great importance and proper preparation of the patient is essential

Rowley W N

The areas of infection should be removed by stages In most cases surgical removal is the method of choice In practically every case local anasthesia is satisfa tory. The period of pregnancy at which removal may be best accomplished depends upon the patient's condition Early removal of the dental foci should be a part of every prenatal regime I rot hyl ctic peridontia is equally important Carous teeth demand attention Temporary dental fllings a e pr ferable to permanent work

With rd & M. Th Histologic Changes in the O ari s During Pregnancy (Ueb d h st 1 g che le end u g n d s O r ms w hre d der G idt t) Zi k f G b i k Gy k g 3 l xx

The first signs of retrogress on of the corpus luteum of pregnancy were found after the second month after the fifth month they were distinct and in the puerperium very pronounced In the first two months of p egnancy fatty degeneration of the lutein cells was discovered in the later months this decreased Drops of cholesterin vere frequently found in the retrogressing corpora lutea of the puerpersum

pigment belonging to the lipochromes could be demonstrated during pregnancy In the finely gran ular thera cells that had undergone fatty degenera tion a substance was found that is probably iden

tical with Escher's carotin

For the bodies in the lutein cells which Miller describes as colloid drops Walthard proposes the name globular myalin a term which designates the nature of these bodies more accurately substitute for the term obliterating form of atre introduced by Seitz the terms follicular atresia and theca lutein cysts are proposed

The author was unable to find any morphological proof that during pregnancy any other cells than the lutern possess the possibility of internal secretion Therefore he rejects for the human ovary the term interstitial ovarian gland as applied to the theca cells of the atretic follicle as a whole WERNER (C)

Danby A B Three Cases of Pregnancy with Extravasation of Blood A sociated with Albu minuria Proc Roy S & M d Lo d 1024 xvi Se t Obst & Gv acc 2 The author suggests that extensive extravasations

of blood into the pelvic tissues may be manifesta. tions of toxamia of pregnancy He believes that the multiple various sized hæmofrhages which are almost pathognomonic of toxemia of pregnancy are due not only to increased blood pressure but also to changes within the blood vessel walls dependent upon the toxic substance The three cases he reports

ere the following

Case 1 The patient was a primipara aged 30 vears There was no sign of varicose veins arterio sclerosis or renal disease. Slight cedema of the ankles appeared one month before confinement and a trace of albumin as first found in the urine two weeks before labor

To o hours after labor began a swelling the size of a walnut appeared in the right labium The position of the fetus was occuput left anterior. The os was completed dilated. The swelling became progres swely larger with each pain until it assumed the size of a small fetal head completely blocked the birth canal and extended to the perineum

Spontaneous rupture occurred and a 1/ lb baby vas delivered by forceps The duration of labor was four and one half hours No pituitrin was given The urine still showed a slight trace of albumin

Case 2 The patient was a primipara aged 32 years Fifteen hours after delivery a paravaginal hæmatoma appeared It extended from the base of the broad ligament to the perineum and into the but tock The labor was premature at eight months At six months the patient had had an attack of nausea and vomitme with a burnin (sensation in the



serum or plasma finding are quite normal while in other cases there; a mod rate increase. The increase is noted most often in the uric acid values a mod erate rise in the concentration of this nitrogenous end product being common Examination of the findings in cases of undoubted clinical nephritis fails to show any particular variation which may be regarded as pathognomonic of the condition seems therefore that chemical examination of the blood for these constituents is useless as an index of the severity of the nathologic changes in eclampsia Rot. \ \ Cr and its to mmias

Vor nand Mantalin Lumbar Puncture in Felamp si (Pouct n 1 mb re ct é lamps e) B # 5 d bt etd gy de Pa 1023 31 5

Three cases of eclampsia were treated by lumbar puncture after the usual treatment with sedatives and measures to p omote elimination. In each a clear fluid under normal pressure vas obtained punctures were followed promptly by marked improvement notably of the nervou symptom lelirium vi ual disturbance and headache

ALBERT F DE G O T M D

G lliatt W Placenta Prævia in Four Succes i e Preenancies Pos Roy S Md L d 10 3 Sect Ob t & Cynasc 2

Gilliatt's case vas that of a oman 12 years of age whose first pregnancy in rora was complicated by lateral placenta prævia which cau ed the birth of a stillborn child at seven and a half months Labor was preceded by considerable hamorrhage for a week The second continement hich occurred in April 1010 was preceded by severe hamorrhage due to central placenta prævia the fetus presented by the breech. The placenta as p forated and a leg b ought do n a dead fetus then being delivered The mother made an une entiul spontaneously recovery In her third pregnancy which occurred about a year later bleeding began early but this was not severe and the fetus as carried to term The presentation which was transve se in the early months of pregnancy terminated in spontaneous delivery as a first vertex. Manual removal of the placenta wa necessa y on account of postpartum hæmorrhage. It showed evidence of premature separation and was evidently attached to the lover uterine segment over the internal os

The patient again became pregnant in 1922 Bl ed ng began at about the sixth month occurred at about the thi ty s cond week of preg nancy When the cerv x v as half dilated the pla cents could be felt co ering to a thirds of the dilated canal The membranes we e ruptu ed and a leg wa brought down Delivery of a I ving ch ld occurred spontaneously in ten m nutes The placenta which was remo ed manually sho ed no unusual features

Only two other cases of repeated placenta præ 12 were found a the literatu e In the first it occurred fiv success ve times and in the second it occurred twice HARRY W. FINE M.D.

Nublola Disintegration of the Placenta in Utero placental Apoplexy (La placentolyse dan I p

plen ute pl ce taire) Gy &c 1 b 1 o 3

The author has made a tudy of five consecutive cases of premature separation of the placenta from the clinic of Barcelona with special reference to changes in the placenta and evidence of maternal toxamia Common to all of the cases were albumi nuria (in one case there were eclamptic convulsions) internal and external hamorrhage with a normally inserted placenta death of the fetus a large excava tion in the placenta at the site of the hæmatoma resulting from hyaline degeneration of the villa marked dilatation of the placental vessel with points of rupture and parenchymatous hemorrhage often extending into the maternal circulation and numerous white and red infarcts

The conclusion is drawn that the minor changes in the placenta white and red infarcts and the more serious uteroplacental apoplexy represent different degrees of the same pathological process and find their pathogenesis in the autointoxications of preg

The article 1 concluded with a report of the results of immunological studies in which fetal and maternal serum and e ythrocytes and placental extract were employed SIREPT F DE CROST M D

Drosin L Views and Observations on Abortions V V & W J or Med R 923 C 1 546

The author classifies the causes of abortion as maternal and fetal The former includes obstipa tion constipation and full bladder with exaggerated antecession or anteversion of the uterus resulting in congestion Other maternal causes are ascensus supracensus

rigid ligaments a short vagina fibrosis hypertrophy of the uterus or adhesions which prevent sinking of the uterus into the pelvis and by thus cutting off the blood supply cause uterine anæmia Of the fetal causes the author stresses especially

twisting or apoplexy of the cord resulting in the death of the fetus

Under symptoms the author describes certain signs found during bimanual examination which are as he claims typical of the type of abortion If hen abortion is threatening the administration

of ergot is contra indicated but when it is inevitable ergot is of value to control bleeding and assi ts in emptying the uterus

In general the author advises curettage with a sharp curette in all cases of abortion The operation should be preceded by a hypodermic injection of p tuitrin and followed by swabbing the interior of the uterus with full strength jodine

During the curettage for therapeutic abortion the anter or wall just above the interior os should be carefully and thoroughly curetted and if the uterus is in retrodisplacement the same care and thorough ness should be observed in regard to the posterior ils #

Ballooning out of the uterus is best controlled by the use of pituitrin and ergot follored by careful curettage

The author claims that except in the cases of priminate the necessity for anesthesia for emptying the uterus can be avoided by tactful management and cheerful reassurance. He advises against the uteruse drain and intra uterine douche. He never curettes when the bladder is distended.

ROLANDS CR V M D

Mason N. R. and Storrs R. W. An Analysis of 400 Ca es of Extra Uterine Pregnancy B: If E.S. J. 1923, cl. x. 2014

The authors have analyzed 400 cases of extra uterine pregnancy operated upon at the eynecolog ical clinic of the Boston City Hospital in a perio ! of twenty years The most striking point in the his tories was menstrual irregularity. Irregular blee ling occurred in 80 5 per cent of the cases and varied in duration from one day to several months The character of the pain varied from a full tche to a sharp stabbing pain in one side of the lower abdomen Comiting occurre I in 40 per cent and when accom panied by fainting indicated marke t peritoneal irritation. The age incidence followed very closely the usual curve of childhearing. The conneest na tient was 18 years of age and the ol lest 47 Fxtra uterine pregnancy develope I before the third p r turition in 73 8 per cent of the cases operation for ector is pregnancy had been performed in 3 5 per cent and in 11 per cent a previous lapa rotomy had been done

In cases with considerable loss of blood the temperature was subnormal and corresponded roughly to the degree of shock and hemorrhag. The presence of concommants warss of pregnancy could not be relied upon Softening of the cervit was recorded in 142 Cases and breast changes or blueness of the vaginal ere noted in a very fer. We hominal tender neas was present in 80 s per cent of the cases and in about half of these was localized in one of the lower quadrants. The findings of vaginal examin u in considerable d agnostic value. A vaginal ma a was felt in 82 in the cent of the cases.

From the standpount of treatment cases of coto; c pregnancy may be classified in three groups () those with market I signs of shock and harm trhage which are poor surgical risks; (3) those which he will be supported by the support of the support of the risks and (3) those without signs of bleedingin a hich the diagnossis aboultful! In the first class the treat ment is that of shock and of the me sur-semployed blood transfusions is the most valuable. If there is no unprovement after three to four hours bleed for the second class of cases unmodel tellar protony

under ether anasthesia is recommended. In cases

with a bulging m ss high temperature and marked leucocytosis the employment of aginal puncture

with a lar e caliber needle has been very helpful in

the diagnosis. The third class of cases may be treated symptomatically until a diagn sis is made and then subjected to laparotoms.

Existson of the involved tube as recommended. The other tube informal should be left. Bloo clots should be removed if the patients con into a variety of the patients con into a variety of the patients of patients. In the absonce of infection, the absonce of patients of the patients of

Fire blood was found in the bloomen in 466 cases. Tubil abortion hil loctured in sents, five cases and tubal rupture in 167. One case of oxaria pregnancy developed to practically full term. In 197 cases other abdominal dicase was found this may be a factor in the 170 to 170

The mortality 1 as 77 per ent. The causes of death given in lecreasing order of their frequency were peritoriates abock and h morrhage ileus bronchopneumons parte rditts and acute dil tation of the heart. H xW LIVE MD

Della Porta P A Case of F tra Ut rine Preg nancy at T rm with a Living Child (I) n aso digra I nase t ut n at mn nft o) R hild g o i 7

Four day if a missing a menstrial period the pitent omain 30 to 50 dage n treed for a few minute. To 50 db light red blood. A month later the was take nextred ill it in locient conting promes. With est a hold these symptoms ceased. The days later is had a similar attack but the pain a 1 lize1 in the 1,th tile Cos a 5% applied to examinat in 1 a mattern 1) hospital April 1.

Ex mi att i revealed anima i fred blood celis i 500 0001 hal i fre timor abo t the size of a four month prignancy anters rio the cerx. Ad agnoss of celt ut rine prignancy was made but as the patt it then felt a grat leal bitter shirely opration. She as theref e discharged this term. It is not remain unler medical super

vion
On O t b o o b hen she are admitted to
the hopital she tate! the for four months she
had f it active feel i movement and that she he
njoved good he lib since her jee vou sikesharge but
f lav pre nou lib hed experience! et in plie
bit mun lipum hich vas particulative severe when

the fet 1 mo ements course!

Th blomen a enlarged s in pregnan v at term but the enlarge nent a mir emrande on the mink size than on the left. Paint to m as uneast? I cto v on account of the derives but a fetal head a 11 tabove. On their rights the he fetal heart was backen at one of the term of the term

mass which was palnated externally. The vaginal vault was distended particularly to the right a here a fetal part vas felt On exploration the uterus was found empty. A diagnosis of extra uterine preg

nancy at term y as made

On October 14 a laparotomy was done Beneath peritoneal adhesions was a resistant mass to a hich the omentum and intestinal coil vere adherent When the sac was incised amniotic fluit escaped The child was found alive and in a podalic position The placenta v as inserted on the ascending colon As an attempt at removing the placenta resulted in severe hymorrhage packing was resorted to after the removal of the rest of the fetal sac The child

a a male it was 40 cm long and weighed 2 950 The mother recovered A report received June 30 1923 stated that the child as in good health

The author concludes his article vith the folloving statements

1 Even when interruption is threatened repeat edly extra uterine pregnancy may continue to term as a secondary ab iominal pregnancy

2 To prognosticate the continuation of an ectopic pregnancy with repeated threatened interruption i very often difficult

3 It is advisable to wait only until the end of the sixth month of pregnancy as after this time the placenta has been completely formed and definitely fixed the possibility of a table child is increased nd the immediate danger is diminished

When the fetus is living it is best not to attempt to deliver the placenta if it is implanted on an organ of importance unless such delivery is easy

S LYATORE DI PALMA M D

LABOR AND ITS COMPLICATIONS

Steinberg B The Use of Pitultary Extract n Labor 1m J Obst & Gyn to 4 n 8

The effect of pituitrin on the uterus simulates nor mal uterine contractions but pituitrin pains are stronger they do not last as long as normal pains and they occur at shorter intervals At no time i tetany produced. When pituitrin i given in the first stage of labor before complete or almo t com plete dilatation of the cervix cer ical lacerations may re ult In cases of pelvic malformation in which the fetus is not expected to adapt itself to the pa sages pituitrin should not be used. In the ca es of women who have had numerous pregnancies the uterus may rupture even under normal condit ons and hence any additional force in the f rm of pitu trin i dangerous Contractions induced vith p tuitr n to initiate labor simulate normal contractions more than those which are induced during labor Women whose labors are hastened with pituitri are less apt to develop cystocele and rectocele because the length of time the baby exerts pressure on the p ineal structures is decreased

Pitu trin is ind cated in the follo ing cond tions (1) prolonged labor (2) exhausti n (3) e kening of the uterine contractions (4) uterine stasis with the head in the perineum and (5) fetal complica These indications must be associated with the following conditions (1) a normal pelvis (2) engagement of the presenting part (3) complete or nearly complete dilatation of the os or a dilatable os and (4) rupture of the membranes

In fact, any indication for forcers indicates the use of pituitrin Forceps necessitate the use of anæsthe sia produce lacerations endanger the fetus and expose the patient to infection through manipulation

If the effect of pituitrin simulates normal contrac tions the author assumes that in small doses as tried in one of the six cases reviewed it can initiate FOR USD I CORNELL M D

The lise and Abuse of Obstetrical Berkeley C Forcens J Obst & Gv ac B il Emb 1023 XX

The author criticizes the teaching of ob tetrics in the medical schools of London. He attributes the poo ob tetrics done in London to the lack of a suff cient number of obstetrical beds for teaching pur po es in the London hospitals to the fact that stu dents are not compelled to attend the antenatal clin cs and to the fact that the seriousness of an obstetrical operation is not sufficiently appreciated by the patient's family the attending accoucheur and the majority of practitioners

The most frequent and cation for the forcers operation is delayed labor. The author di cusses delayed labor at length and concludes his article with the followin statement. It has been said with some semblance of truth that gynecologists a ould starve if it were not for bad midwifery The forceps is an extremely aluable instrument when used with intel I gence and in suitable cases so is poison gas

A statistical report of the forceps case in the London Maternity Hospital from 1908 to June 1923 1 appended POLAND S CRON M D

Hir t J C Ti e Case Against Axis Traction For ceps J A If 1 s 1024 lexen 205

The author discusses the various types of forceps and concludes that the best is the Dewecs forceps although in these as in the others the pull applied

at the handles is multiplied at the blades He then con iders the indications generally ac cepted for the use of axis traction forceps the methods of application the injuries to the mother

and child and the after effects in the mother The article is concluded by a discussion of alterna-ve method of delivery. In many cases when

tive method of delivery proper pelvic measurements are taken and proper prenatal work and antepartum fetometry are carried out much or all difficulty can be avoided by timely induction of premature labor If the measurements are too small to justify this procedure an elective cæsarean section one week before term is the obvious solut on When the patient is seen for the first time in labor a different plan must be followed First a test labor of sufficient length i necessary to deter

mine what she will do for herself. If sufficient time is allowed the head will often mold and enter the jelvis without aid.

If the head does not enter or descend the pelvic canal to the level of the ischittic spines spontaneously it should not be dragged down Ordinarily forcep of any kind are justifiable below the level of the ischiatic spines but not above it. With our pres nt facilities for surgical d livery high forceps have no place in obstetrics. If the axis traction forceps are applied and the head is brought do n easily they are unnecessary The 5 mpson forceps properly appl ed with the so called axis traction grip-one hand pushing the handles up and and pulling mod erately outward and the other hand making down ward pressure at the lock of the handles-will exert all the force that is justifiable and will bring the head down as vell as the arms traction instrument and with much greater safety to the mother and child In this resp ct the modern Auland forceps with their lack of pelvic curve and with a shifting lock may prove superior to the Simpson forceps

Il this degree of force is not sufficient to move the bead greater force should not be applied. In these cases if the child is dead cranstomy is the proper method of procedure but if the case has been intelligently and of the control of the case has been intelligently and the control of the case has been intelligently and the control of the case has been intelligently and the control of the co

Crothers B Ch nges of I res ure In ide the Fetal Granio e tebral Cavity Sug Gy & Ob!

In the article the results of the application of force to the fitts during deliver; are considered for a physiological and neur logical standpoint. The most important less on which may be caused directly by force are rupture of the fals cerebir or tentorium creebell and rupture of the cervical spiral column. These re not necessarily fatal but they expose the medulls and jupy reod to juigity.

Unde ord nay, circumstances the me lulla a protected from impronse pressure by the tentorium and by equ librium of the d pressure at the foramen magnum who here in stodomward d slocation of the contents of the poster or fossa. The balture of pressure can be upset and herination of the cerebel hum and medulla may be produced by ruptue f the dural septae of normh atmost of forces which main tain or increase the init reanal pressure whiltim shing the spinal p e use.

Breech attraction as commonly performed brings langerous and unphysiological forces into play Lathological evidenc shows the rupture of the tent rium occurs in 88 per cent of stillborn infants delivered in so called normal breech labors. A considerable number of injuries of the vertebral column or the spinal cord m. v. also be logically attributed to traction during breech delivers.

In addition to the gross injuries — inch account for about half the deaths of viable newborn babies various alterations of pressure during del ery and manipulations made during resuscitation may cause fatal or d sabling lesions in the central nervous six

Asphyna as commonly described in obstetrical literature is aguely defined and pathological and experimental evilence of it i lacks ig. While the absence of proof is not initself evidence against the obstetrical conception it invites challenge. The pathological findings particularly those in babies dying after breech deli er rar et the question whether efforts to prevent fetal a phyru may not add to the already great risk of 1 jurt to the crains overlebral cavity.

Harper P T The Occiput Posterior 4m J

Tr atment of the occiput posterior is summarized as follows

Until the should rs have become engaged treat ment that dp le est he child's body toward the front and bolds it the refavors the assumption of an anterior posit on by the or put provide git the presentin part is so located that the occupit can rotate. The latter may be bose to bel who tho tin the inlet. After eng gement of the should rs neither forward displacement of the body nor ven manual rotation of the occupit gives hope of permanent assumption of an occupit anterior posit on because when the rotating force is emo ed the occupit reasumes its a atomic Ir I too no the should its

When labo is obstructed at the inlet or in the upper mid pelvs and the or opiut is p stenor the conditions to be treated a e those that ha c caused bostruction such as retraction and p live deformity and not posterior po ition of the oc put. In other words is hen labor is obstructed by huy there is no teatment for the occupit posts to assist h. When the present in part r st in the lo mid p his sor at the pelvic outlet and when interior of aton in adsubting the contraction of the present in the contraction of the present in the present in the present in the present in the first middle and the present in the present

The attitude tow rd the oc plut posterior should be one of ct e exp tan v Act e pectance applies treatment th t s indicated but s not med dlesome. It is the opposite of a policy of me is letting alone that esults in treatment only when it demanded by fully developed abnormal ties and may be mo e d finult and less assistatory.

LARDL COR ND

OBSTETRICS 439

Emge L A The Repair of Birth Lacerations of the Cervix Uteri Am J Obst & Gyn c 19 4 1

Immediate cervical repair at the end of the third stage of labor is feasible and advisable if it is effected by an experienced obstetrician under ideal conditions and proper surroundings It requires experience in recognizing cervical lacerations at this period and the development of a special technique. It is not devoid of danger but when carried out with proper regard for asepsis will not materially influence the morbidity It may or may not slightly prolong the patient's stay in the hospital as this d pends chiefly upon the type of delivery It gives excellent results in the cases of primiparous women 83 per cent do not require any further local reatment. In the cases of multiparous women who have had previous tears of the cervix it is unsatisfactory as healing is prevented by insufficiency of the blood supply

Under strictest asepsis two of Young's vaginal retractors are introduced into the vagina after the expulsion of the placenta and after 1 c cm of asep tic ergot has been given intramuscularly cervix is then brought into view by pres ure over the fundus by an assi tant and with the aid of two sponge holders the organ is fully and easily exposed An ether sponge is then applied to the ra v edges This blanches the tis ue and thereby ren ders the torn connective to sue easily d stinguish Tears less than o 5 cm in length are dis regarded. All others which usually occur in the angles of the cervix are approximated by single mat tre s sutures This type of suturing does away with cutting into the epithelial edges of the lps by the sutures in case severe codema divelons. The sutur ing is done with so called forty day chromic cat gut No 3 threaded on large Mayo needles Great care is taken to tie the sutures just tightly enough to approximate the edges of the laceration evenly with allo vance for the slight amount of swelling that takes place soon after delivery Primary union usually occurs within twenty four to forty eight hours after this length of time the value of the suture is problematical EDWARD L C RY LL M D

Judd A M A New Type of Cae arean Technique

V 1 & M J & 11 d R 9 3 11 572

Following a review of the history of existeran section the author states that in cases of frank infection all types of the operation incl ding the Porro procedure are definitely contra ndic ted. The only possible e ception is the Latzko operation as pract ced by Davis.

Judd believes that it is a gr at mistake to do a hysterotomy before a hyster ctomy and to expect the pelvic lymphatics to care for the infection. He herefore ad ocates hysterectomy follox ed by hysterotomy of the extripated uterus. The procedure should not take longer than five to seven minutes after the clamps have been put in pl ce

The article is concluded by the following state ment This method of procedure I have carried out in two cases up to this writing My success in both cases in se uring a living mother and child proves nothing except that it is easily done

ROLAND S. CRON. M. D.

Stone M J Report of a Case of Postmortem
Cæsarean Section N Fork M J & Med Rec
1923 CXVI 571

The case reported was that of a multipara who died of bronchopneumonia and pulmonary redema file section was performed one minute after death. The fetus was resuscitated after thirty minutes of stimulation but died fifteen hours later.

While every attempt should be made to save the child it is always advisable to have another physician verify the death of the mother. The survival of the child depends on various factors. The best results are obtained when the section is done during the first seven minutes after the death of the mother.

PUERPERIUM AND ITS COMPLICATIONS

Clauser F Functional Tests of the kidney in the Puerperium (Sull esame funz nale dei re i nello t to puerperale) Ri 1 l d g ncc 1923 1 25

Clauser di cusses at length the several tests of renal function thus far devised and then describes his modification of Nyiri's sodium hyposulphite method as follos s

The bladder is emptired and the urine is kept as a control. Ten cube centimeters of rope rects sodium hip sosulphite are then injected intravenously and the bladder is tapped one two and three hours after the injection each specimen being carfeilly labelled and measured. The tenty cube centimeters of the urine to be tested are shaken thoroughly with 0.5 gm of animal charcoal for two or three minutes and then filtered. To 10 c cm of the filtrate 1 added a little tarch solution and titration is carried out against tenth normal lodine solution. The end point is reached when the blue color is fully developed

The amount of sodine solution used multiplied by 158 gives the amount of substance in 10 c cm of urine that is capable of binding jodine substance is found in variable quantities in all tures and mo t of it can be removed with animal charcoal The amount not removed by charcoal in a given case is determined in the control specimen by the test described and the figure thus obtained is subtracted from the figure obtained in the test speci men the resulting figure representing the amount of h posulphite in the given specimen In the three hour period after injection the normal kidney vill excrete from 30 to 40 per cent of the amount of hy po sulphite injected The degree of renal insufficiency is indicated by the difference in the amount of the drug excreted from the amount normally excreted

Clause carried out the test in women in the last three months of pregnancy in others in labor and in others after delivery A number were tested through the three stages The test is very reliable. In some cases it disclosed renal insufficiency that would ordinarily be overlooked. Clauser advances the opinion that the kidney of the pregnant woman is never a truly nor

mal kidney

The definite decrease in function \(\) the in the order ord any pregnancy is usually molecule becomes marked during labor but does not give rise to serious trouble po subly because of the short is soft finishing and the puerperium the kidney usually regains its fun tion in less than five days. Ther in 11 ion in celaining sai is often less grave than that in ordinary thomic nephritis accompanying pregiancy. There fore it is necessity to \(\) atch the kidney so f pregnant women since driving templates an insidius course and may excape timely detection unless proper functional testings i don't

SALVATORE DI I LWA M D

Gauthler and Lapointe Ti ree Hundred and F fty Cases of Puerperal F T Treated by Curettage and Continu us Irrigation (5 r g d 6e puerper letr t spa 1 urett g et urg ti n n tnu) B il 1 t en S d k d P o 23 b

In 350 c.ses of postpartum infe ton treated by curettag and continuous irregation of the users there were only three death. Afte curvings the userne early may arrigate I with a constant if of sterile water or whine solution by me ns of a mill non perforated catheter and a somewhat large and perforated catheter. This teatm in hich as begun from two to eight days fit the first signs of infection cause la rapit fall in the teng reatur.

NEWBORN

RI senfeld E A The Physi I gical Los of Weight in the Newborn and It Control i J Ob t w Gree 1923 1 728

In me 1 newhorn infants the loss of seight occur ing after burth may be rest of the qui min. In the cases of ve v small infant parti ularit the ends are premaiture the physiological io s may be difficult to overcome and may be great nough to exposite the When the chill mg to with most infants are exposed of the body surface? In the properties of the body surface? In per turn to make the composition feet fixed have did and the administration of the post amounts of duid by mouth max on eavy ability present it entirely.

of the sphoofers process. Most infants days of the sphoofers process. Most infants the structure of the sphoofers process. Most infants and the sphoofers in the case of to infant to which the child go degree. In the case of too infant to which the child up was prevent did a tual! s in the fact kently four hou as a regard 4, a ca and the relative to a save aged 2, per cent. In it is easily a sphoofer with the sphoofers of the temperature change the case and trailing was carried to the temperature change the case an attail average loss of 4 6 and a relative average loss of 4 6 per cent. The loss

of weight in infants i ho were used as contr. Is fant being expo. cd to heat) was 43.7 per cent more than the loss sustained by those so e. pos. d

FOI AND L. C RYELL M.D.

Walther P and Leilerre A Polycyst c'h dnegs and Meningocele in Three Consecutive Infants (Tr s de lêt s polyk) i que s'nales c'm p g é's d'ménag èle dras tr acc ch meats n'é ut 1) Bill S c d'bil d'de gyne 2 P 9 3 1 435

The author reports the case of a 1 oman who in the e successive pregnance a gave birth to an infant with a meningood at the posterior extremite of the superior sag that sinus and with large polycystic kidneys. D ath o curred shortly after birth and an utopos was performed.

The arti le is concluded with a hi torical revie of the a ious theories which have been advanced first riding the pathogenesis of the type of kidney lesion Liprar F Del gott MD

MISCELLA JEQUIS

An puch B M The Tr nd of Modern Obstetrics -What Is at Danger? How Can It Be Changed? 1 J Ob 1 - L 9 3 1 566

Rutn induction rutine ers on and routine pophylacti freeps ne ease the dang rof child brith to b then the rand hild

Labo hould not be begun or ended routinely Induct in to eps and version hould be employed only I they are I fingely and cated for the sake of

th moth r r the child

The unastable fetal mortality in labor is be tween 12 and 2 per cent in other worse that percentage of infants at term vall be born dead it spe two of the method employed 1 na repot of a sene of a sine details of early fetal death will be twen The an olabif tell mortality in contraint of the trick may be timat latabout the central triangle.

The noman in lal - should have the constant and onth income attending the late of observers should be arred on by obst incal pa income his vision of the process object onable routine methods. Ho eab indone land maternal and letal mortality (att : a will be impro-cf | 10 mg/ (obst. M. M.)

Hendry W B The Te cling of Obstetrics and Gynecology 1 JOh' - Gn 9 3 583.

The author decue the teal ming of obstetrics and gynelogy with part ular elerne to the system follow I in the College of Medicine of the U is rst v fT onto

The course n betetres and geneed go seen the lithe hard two cears. In the first of the extress subjects are cored by series of letures and in trait. Whit is letures n ill regenous the principles and prefere of obtatics and go ecology, while the entry demonstrations are given.

OBSTETRICS 441

history taking the mechanism of labor pelvic measurements the use of instruments pathology etc one sixth of the class attending each demon stration. When the classes are small the d mon strations are of much greater value than y hen they

The bedside clinic is the ideal method of teaching but has its limitations as its effectiveness depends on the number of students attenting and the amount

of clinical material available

The junior year is largely didactic but the final year is almost entirely clinical During that time the situ lents have their headquarters in the obstetrical building and absorb the atmosphere of the denartment

Special attention is paid to the student's training in antenatal care abdominal palpation and pelvic examination and the course is made as practical as possible. The laboratory side of the training is not

neglecte 1 however both gross an 1 microscopic specimens of conditions under di-cussion being lemonstrate l at the clinics

I DWARD L CORNELL M D

Mackenzie W R Roentgenographic Pelvimetry

J Ob ! & Cy | TC B ! Fmp 1923 xxx 556

A standar I plate for pelvic measurements is necessary and the patient must be roentgenographed in the position of the standard pelvis with the same point of focus and with the X-ray tube at the same angle to and the same distance from the sensitive plate

The \ ray shows the variety of the pelvic contraction listinctly and the various pelvic diameters can be worked out with case \ nother advantage of roentgenographic pelvimetry i that it subjects the patient to less di comfort than other methol \ Twent L Greyett M D

LIWIND L CORNELL MIL

GENITO-URINARY SURGERY

ADRENAL KIDYEY AND URETER

Perriers Cl ronic Enter renal Syndrome with Nephropto Is Colectomy & phropery Cure (Syn frome e te renal ch infrome e te rénaich i e ec néilt i se lect m néph pe i gué so) J d' l'ord 1011 1 414

I erner reports the case of a woman 29 years of age who had suffere I from enterocolitis with d arrhe a since the age of 12 years. I vertuelly the condition became associate I with lumbar pain on the right side symptom of cy titis ordema of the ankles headache stupor an'i persi tent i miting right hi incy was easily palpable an i painful and the renal pelvis was filate! The unne was loaded with colon bacille. Lavage with collarg I afforded no rehef On several occasions there was hamatur a A cure was effected by a colectomy with ileosig A cure was current moidostomy and nephropexy
Loyar F Davis M.D.

Brettauer J and Rubin I C Hydro-Lreter and Hydron pt to is A brequent secondary Find ing in Cases of Projap e of the Uterus and Bladder im J Out &Gy et 10 1 1 696

The authors studie I six cases of complite proc il ntia with a large cystocele and four cases of partial pricidentia. In the latter the ervix was marke ils hypertrophi d and I ngated a was the rtt n of the uterus that protrude I thr ugh the intritus Ils fro ureter and hy fron thr i present in eight I the cases In two the ur I go I examinate n fulcito sho any almormal ty it s interestington to that the latter with cales of tartial prolance in one ther wa a largery tele and in the other a cy tocele of mo ler te size Inf ur as the hydronephro s was I lateral A a rul om plete prolap e was associated with a life is too le and biliteral Lidney ureter dilatati n. In the a c of an elderly multipara with light cystocel th dilatation of the renal pelvi was bil ter I but mo I erate. In a case of large cystoc le vith ut prol p e there was moderate unilater I hydr phr i show ing that the d loc tim of the bl dirit elf au es ureteral stas and d lat to n Lessaries i e e norn bi only thre of the pati rts

One had a unitateral he fron phro s n lanoth r mod rate b Interal hydron thros s The I tt r had go ie ithout the pes ars f reight month it ced ng the examination. In the third case no dilatation w s found but the patient wor a pessary at irr gul r intervals

In general it may be said that the older the patient and the long r the furation of the prolapse the mor probable that dilatation of the kidney pel s an l ureters will be a octated with it. From the high incid nce of hydro ureter ant h dronephro is in cases of prolapse of the uterus with cystocele (So per cent of the ca s forming the pasts of this stud) it is logical to conclude that there is an important etiological relation hip between the two conditions The importance of early operation to correct de cen sus and genital pr lapse must be recognized. In inoperabl cases a pes ary i ill r leve the prolapse and save the kidneys from secon lary damage

In advanced newlect d cases it becomes all the more important to stu is and con erve kidney func tion bel re undertaking operative correction of the prolapse Greater attention to the ph noisulphone phthalein and indigo carmine output and to exam ingtion of the blood for nitrogen retent on etc may and cate the extent of ki liney damage in aw manwith gen tal prolapse. To d t rmine th degree of ureteral dilatation simple testing of the capacity of the renal pel is an I ureter by the u e of sterile water al n will be sufficient. The injects n of sod um todi le or so hum bromide in solution should be reserved for doubtful cases

It may be well al a in undertaking established operats as for the cure of uterine p olapse or in el nning ne er method to consider the relief of the ur ter and ki in v I latation I ostoperative urolog amination will ultimat ly and cate the best procedure f r thes a es At the present time it ma st ted th t ventrosu pension with vaginal pla ties will meet the requi ements (are should be taken

r to a if I ating the uterus too high As the ex tocal plays an important part in the grod tion (the rete al listate n early operation tsc r tini ipertant

FORN DI CONTEL, MD

François Ti ree Ca es of Reno esical Colon B cillu Infection Due to (secal St is Which Were Cured by Intestinal Ana tomosis (Tros

l (t n teno- est u 1b illa es to se u tfåles t é l sué par té o-I mid i k m×) Jd 013 X 4 5 f an infant with a d lated colon a

In the 3 s flected by simple alastomy f hute cur dult an l gn or lostomy and an the cares of t ileo olostom) re ulte i in complet lievistion of the myt ms d dis ries ance of the ba illuri

LOY LY DAVIS M D

fret mi Reff in in the Oppo ite Kid Crandin au ney in th Cours of Renal Affecti n (Le reffux u urs les ffecti étéral d n 1 sec n1 en l's) Jd I med 1 h 0 1

Ur teral reflux is of three types (1) bi at ral () u lateral in a li e sed kidney the other kidnes being normal and (3) unilateral in a h althy kidney

with a surgic leo dt non the opposite side

From a study of the last type mentioned the author concludes that ascending tuberculous infection of the moposite skinder; spossible as the result of ureteral refur but is not common. Therefore in a case of suspected biliterial renal tuberculous; it is necessary to search very carefully for the signs of ureteral refur. In many cases the opposite kinder may be protected by removing the tuberculous; kindey and treating the bladder. LOALE DAVAE DAVAE MODE.

Levy R Accidents and Complications in So Called Gured Renai Tuberculosis (D s a c dents et c mpl ations d s tube ul es rén l s soi d' ni g éties) J d' al med i k 923 vi 352

From a study of six cases of so called cured renal tuberculo is the author concludes that a large mas sive necrotic kidney may be the result of a closed or a primarily open tuberculosis. In the first instance the ureter is not necessarily impermeable. The disfunction rests upon the presence or ab ence in the history of the clinical symptoms of an open renal tuberculosis. Neither the massive necrosis of the kidney nor its occlusion by ureteral obliteration pre vents the occurrence of ery grave complications such as involvement of the opposite kidney infection of the lover urmary tract particularly the blad der propentosis or perinephritis. These may be interpreted as manifestations of the persistence or the results of an active tuberculous lesion and may be acute or chronic General conditions such as toxxmia with fever albuminuria byuria cystiti and bilateral lumbar nam may also result. If the patient's physical condition immed at ly improves and all pathological phenomena rapidly disappear after the removal of the di ea ed kidney it is evident that the general symptoms were the result of the renal tuberculosis LOYAL T DATS MD

Rafin End Results of Nephrectomy for Tuber culo is (Ré ult is él gné d l néph t m p r tub rcul se) f d l méd et ch 923 x 428

Of the author's series of patients 6 per cent died within a month following operation 12 per cent died within the first ser months 5 per cent it ithin the second authorith 16 pr cent within the first four years 12 per cent within the first six years and 5 it c c an vithin the newars following operation. On the other hand 44 per cent are living more thin tenders and the operation in 20 per cent the units of the control of t

Hert Ier A F Bilateral Nephr lithiasis Opera tion Und r Local Ancesthesi S & Cl A Am 1923 5 3

The author describes a case of bilateral calculus pyonephrosis in a 50 year-old oman i ho had had symptoms for twel e years and hid been refused operation on account of hir poor cor dition

Vary plates showed a number of large stones in each kindey. It was decided to operate on the right sade under local anasthessa. The pelvis of the kid new was opened with the electrocautery without freeing the organ from its bed. Most of the stones were removed in this way. but a partial nephrotomy was also hecessary. After a stormy convalescence the patient left the bospital.

Seven months later she was re admitted for na operation on the left tade. Beades stones a larg pyonephrosis was found. The convilescence following this operation was less stormy than that following the first one. The patient was discharged with urriary sources in each loin. Year plates showed stones remaining in the right kidney. In the following asy months the patient tained 30 lb.

In operations of this type the author makes long low incisions so as easily, to reach the lower pole of the kidney does not attempt to free the kidney from its bed and opens the pelvis or the kidney itself with the crutery as necessary. HENRY L SANDOR M D

André End Results of Operations for Renal Calculus (Résultats él gnés des opé ati ns print ase ré aic) I drol m dit chi 1923 x. 429

Calculs eldom recur na non infected hidney from which they have been removed if the patient is given proper medical treatment. After the removal of a calculast from an infected kidney it is nece stary to lavage the privis frequently and press tently. The function of the treated kidney is better than before operation. The occurrence of stone in the opposite things, after applications, and the proposite of the properties of

Boppe and Brouet The Points of Esit and the Course of the Posterior Branches of the Spinal Nertes in the Jone of the Lumbar Incision for Nephrectorny (Contrib tion à litud des no sits dém g n e et du traj t de branches posté cures ées ne l' r ch dens dan le r ne de l' cus n l imba ed (ph ect mie) B il et mêm Soc onst de P i g 2 C 311

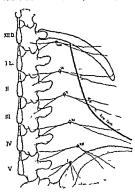
The induction of regional anxithesia sufficient for nephrectomy by blocking, the nerves of the lum bar wall and the 11 ceral review to the kidnes is difficult. Inflictation of the splanchun curves will anxithet as the kidnes and the saw thesis real be anxiented to the same than the same than the same than the same that the same than the

In some of the cases reported the anasthesia was incomplete this being due to anatomical factors. In the region from the twelfth transverse process to the tregion from the twelfth transverse process to the transverse transverse transverse transverse transverse transverse trade by the posterior branches of the dorsal and lumhar spinal nerves. The authors mixest gated this serie distribution in six cadavers.

In general the energy levie the spine in an obpique inection downwarf and outwarf and arsh riter an ismull; ethin th anietior I ranches. The eighth dor all is attached to the lower I ranches and with them has an almost verticul course before leaving the spinul canal. I risk objects into a small ing the spinul canal. I risk objects into a small is the true posterior branch and thas both a mu cular and a custameous synthibitum.

the authors lescribe in detail the origin emer gence an I de tribution of the nerves from the eighth dorsal to the secon I lumbar If the points of origin and the course of these nerves are kn n it is ant stent that the usual n threctoms inci ion begin ning at the costal margin 6 or 7 m fr m the millile line of the spines meets in its upper just the cutaneous area suithelly the posterior branch of the eighth ninth and tenth I real n rs and m s es the eleventh and tw lith forsal and the lumbar nerves If thin after the in luction of splanchnic anasthe sta only the t clith it salan I the ut per two lumbar nerves are injected all of the upper part of the in e ion will r main out ile th anæsthetize I fiel l Therefore to of tain compl te an esthesia for neph rectomy blocking of th nerves fr m the ighth lorest to the see and lumber by me I an ane thesis of the whole see al corl is nece are

As the techn que of this spinal anesthesia i



the auth is a locate (s) splanching anosthesia and (s) the injection of the twelfth lorsal and the first and iscorn Humbar nerves at a point about 5 or 6 cm. I from the me han line I llowed by subcutaneous 1 ne a infiltration in the upper I with or thir I of the nephrectomy incision. Killore Sprin MD

Du rgey J Permanent Bil teral lliac Le teros tomy (D lurété est me il q e b l té l defi niil e) J d m d d B d u 1923 x 824

In the case of a pit ent with an extens e inopcial clum of the bid left that red left e is encublarable on account of harmatums pat ful mic tunt on and very punful politherias the action make 1 permanent blateral unclerentimy which promptly refer the san from an if activities on the trainment of the tumor 1) rai therapy and local applications.

In the operation the prefers are implanted in the ill e rather than the lumbar region because in this manner a smoother curve is of t ine I which pre ents ureteral obstruction with pel ic retent on and because the care of the fistula an I collecting apparatus is as ured by implanting the preteral orifices in the skin symmetricall two or three fagerby libs in the the anterosuperior iliac pine so that the m tal collecting cup nlit auer unling i neumatic lag are well's ported in the soft to sues. The cen t t of the inci ion les two forcer rea lths within the anterosuperior if ac spine. The length varies with of the nationt. The upper part is the st utn s rtical a I the lower part oblique and s ff ciently log to perm t livi i n of the ureter at the lo est res lle peint

The abd min I wall i opened Its separating the oncurous and missel filters for notetherentoneum nj pu hing them mixard beyond the permatice of uteroo in sels it he unteres with crosses the ommon flac cessel. The unterest if read with the mixard beyond the control of the contr

closed with re to privent strangulation of the uriter. The uretrit is a rail of mit rabeyon the

kin i I a not sutu. I to the al lominal w B. A gl. att. himment tha rubbar tube te a urnaal is into du vi. to it. Mir as er I lass a thes and hit the ut. I to that lom n lastlant laceteror uz i prti n become gangra us. Who t the tenti thi a when the wounts e he I a cessios t m agib. Tust inted comfortably t each urnaary fistula.

I rule filtral u ter tomy hould be per f m latone jerat n. In the n es finoder tely t ut j ti nt th perat t hn qu is com paratively e y

In ni crees (the uthers rent ight crees ported in the literature) there were it operate to ories and to post pe at dath. One of the leaths occurred on the verth day it may old.

kaney lesson and the other from market involved ment of both kidneys. Most of the patients had extense a blad fer cancer and were in poor condition. The six patients who recovered from the operation were preafly relieved and I survived for a period of months, Ogly one patient to perated upon for after operation the ursternal skin onfice required dilatation.

Two possible accidents are stricture of the outsite and a cending infection. Steno is combated by dilatation. Ascenling infection usually occurs sooner or later and i favored ho stenosis of the orice or sature of the ureter at operation. In the authors opinion the relief given in cases of inoper able cancer of the blad far which assured have a contract of the blad far which assured have a constitution of the contraction of the contraction of the contraction of the latter way, be retar led by cleanline a unitary anti-cptics and a sixtee intriger irrigations.

The indications for the operation are painful diffections inoperally tumor or a banced tubercu lo is of the bladder ulcerated tumor of the proteste uterine neoplisms which have invaded an il perforated the bla lider and certain cases of existro priva of the bla lider and certain cases of existro priva of the bla lider that on only in mit the earn gof a good apparatus. It is e pecially indicated by inoperable not ratic and ves call tumors.

Suprapulue cystostoms mas he followed by mas son of the hypograture fixtual by the tumor Per manent blatteral nephro toms is m re diffi ult re quires more time and i associated with gr atter dan get to kidney function and greater lift cults in the postoperative care. Implantation in the intest ne has a high operative m ttality and favors the devel opment of severe py elonephris.

Permit ent bilateral thac ureterost ms 1 2 pal lative operation which r nders serv e to both the patient and the surgeon especially in ase of inoprable cancer of the blad le 1 places the blader at rest facilitates l al trument of the di ease nd ren lers e statuce tolerable.

WALTER C B REET M D

BLADDER URETHRA AND PENIS

Grave R C and Da idoff t M. Studi son the Urete and Bladde with Special Reference to Regurgit tion of the V sical Contents J 1 19 3 x %5

In this article the uthors r pot the sulls of experiments on rabist with grito the occur nee of regurgitation of the bldir content

Of seventy three n m | r bbits h lladders were file | slo | y vith vam ph iol gical salt solution 73 7 perc t h hi d the ph nom non In a sconi gr up f nim | th u trs r

first ren lere i abnormal by ope to Regurgita
ti n occurre i in 78 prent

In a th i group of s n railit i hich the attempt was made to prod r gurgitation by causi g prolong d r t ntion of usin ub quent

laparotoms, showed that reflux had occurred in one but the findings of these experiments are open to question as it was impossible to determine whether transitory regurgitation had occurred

In a fourth group of eleven normal animals fluoro scopic examination revealed the phenomenon in six It was found that in normal rabbits regurgitation depends cheef who progood bladder ton, also that bladders which were relatively empty and contracted at the beginning of the prepriation cau ed reflux ti ace as frequently as those which had been die tinded with large amounts of time.

The degree of urcteral activity has little bearing on vesical regurgitation

on vesical regularation
On the basis of the c findings the authors conclude
that bladder regularation may account for ascend
ing infections of the utinary tract particularly in the
pres nee of obstruction of the neck of the bladder

C D Hornes M D

Bianc II The Interureteral Bar (\ p po d l barre t urétérale) J d r l méd et ch r 1923
1 274

The author reports two case of a miljormation of

the urinary bladder described as an interureteral bar Other cases are cited from the literature This condition may be congenital or produced by

senile changes within the bladder. More commonly however it occurs as the result of unmay retention caused by hypertrophy of the prostate particularly hypertrophy of the me lian lobe. In some one it may follow retention due to vesical paralysis. Young a crylamation of this interrupted by a re-

quote 1's oung regards the malformation as a hypertroph of the traporal muscle. This muscle which is continuous with the longitudinal muscle fibers of the u eters are is superimpe of upon the musclature of the bladd 't' all has an important function in mic tuntion. In the presence of ob truction to the turn ary outflow it b comes greath. Prepertophied and ince normally, luring contraction it divides the blad for into two parts. It may produce the same result in a blocertily.

The symptoms caused by the interurcteral bar are analogous to those pro fueed by hypertrophy of the pro tate. The treatment must be directed I toward the factor cussing the urinary obstruction. When the Hadder is non contractile removal of the bar may amel orate the symptoms temporarily.

LOYAL E DAVIS MID

Watson E M The Trigone Surgically Considered Its Part ology a New Method of Dagnosis and It Operative Management Jim

The patholog changes of the impone have rot received the turly due them although enlitement of the subtrigonal gland is generall recognized and operate ermod gland is generall recognized and operate of the subtrigonal gland is generally the produces a basif of continuing variable amounts of resi lural une. This hypertrophy is secondary to obstruc

tive lesions of the lower urinary tract and is augmented by superimposed infection

Three forms of pathological changes are considered I Simple muscular byp tropby In this condition the trigone is thicken of the surface is pully and adematous round cell inflictation is present beneath the mucous membrane and beneath the barrier of round cell inflittation loose fibrous tissue extends to the bladder musc.

2 Muscular by petrophy and round cell infiltred no associated with an increase in the size and number of the subtugonal gland tubules which differ insize and ship from bypetrophical folions glands never definitely project into the libidder and occupy the size of the subtugonal glands of the size of the

Types 1 and 2 are observed in the presence of urethral stricture and median lobe enlargement with long stan ling cystitis and injected urine

3 A form without appreciable mu cular hyper trophy no glandular elements and no evidence of roand cell infiltration. This type of trigone forms a thin ridge and uppears as a thin membrane in Bladder. It is lound in longe-standing cases of prostatic hypertrophy without infection of the bladder unit or any length of time.

The d agnoss may be difficult but may be made by liling the bl dder two-thirds full and making a cisto gram. The cystogram will shive a somewhit hour glass outline of the bladder due to the trigonal pull on either side. He cystogram is then made with the bladder filled to its full capacity, the hour glass outline will not be seen.

The treatment is removal of the obstruction through a perineal urethrotomy in the membranous urethra or suprapub call;

HARRY W PLAG EMEYER M D

Gold tein A E and Lutz J F A New Procedure for Performing Lithologramy J Am M A 1923 in 2031

The autho a believe that in uncomplicated cas a of vesical calculus litholapaty is the operation of choice In their method of treating such ase the patient is placed on a fluoroscopic table The bladder is cath eterised irrigated with an antisept c solution and distend d with air to its full capacity through the urethral catheter by means of a 50-c cm syring The catheter is then removed and the 1 thotr te The beak of the instrument may be introduced seen easily through the fluoroscope. The blad s a e opened and clo ed and turned from de to sid The calculus is then grisped and the blades are locked and again turned fr m side to side. If the blade of the instrument pinch the bl dder muc a this is indicated in the fluoroscopic p cture by a change n the form of the air shadow of the bladder

After the calcul s is crushed and the lithotrate has been remov I fragments of the stone a e washed out by me as of the usual evacuator and the larger pieces are picked up with a cystoscopic rongeur. The rest are left to be passed out in the urine. The author describes the \ray ray technique in detail

The injection of 3 oz of a 5 per cent solution of procaine into the posterior urethra and bladder fif teen minutes before the introduction of the litho-trite is fairly effective in rend ring the bladder inner sible but better results are obtained with spinal or sacraf anexthesia

The ad antages of the method described are that the work is done under visual control the time of operation is reduced the danger of harmorrhage and trauma is excluded and stones of large size my be crushed.

HENRY LAYTON MD

GENITAL ORGANS

Mauciaire P Testicular Grafia in Animal ad in Man (Les grelle t teula es chez les mmars et h 1h mm.) Arch d m l d ; r l d g n grafi p n 3 19 31 5 3

Mauchare bel eves that homoplastic pedicide or tree estructura grafts are indicated in class of copie testicle and very voluminous inguinal herial case of ery markel enuncion in and cases of grave mental disturbance folloring castration. The grafts should be placed in the set tum or in a missing graft should be placed in the set tum or in a missing the grafts give immediate results which cannot be doubted but the graft survives for only a short time to the set of the s

Kut mann A A and Cibson T E Malignant Tum re of the Testicle in Children 1 S 1

The authors report a case of a malignant tumer in a boy 10, sear of age which originated apparently in the left testis recurred after removal and it is removed to the left testing the left spermatic cord to the tetto-pertoneal lymph modes and thence by may of the tymphatics and blood it can to the pleuse lungs disphragm and live. The diagnosis I embryone carcinoma (Ewing) was most agir in the case even though it above of no is mithough attorn and the extent the contract of the contract of the contract of the contract process of the contract process of their charact institute.

There re two large groups of testicular tumors the teratomata (heterol gous tumos) and the seminomes (homologous tumos). The other types are extremely are. The homologous tumors a es or are the they may be disregarded. Sarcomaof the testis—is a m soomer s the visit majority of malignant tumors are of epithelial origin.

In child en testicular tumors are relatively infrequent. A few dermo ds ha e been eported. The tragority are congenital developing without previous trauma. They are relatively more frequent in undescended testes than in normally situated organs. Both sides are affected with equal frequency. Bilater I tumors are rare. As a rule the tumors resemble vhen segg in size and shape and sometimes are differentiated from hydrocele or harmatocele tuberculosis or guinna only with difficulty. Some are havd and nodular others are smooth and still others are cystic and fuctuant. The overlying skin is rarely invaded but sometimes becomes discolored and shows various these Fatal harmorthage may occur with rupture through the skin. The development is usually symptomatic. Pana indicates involvement of the tunica abuginea. This is followed by cacheria and death or generalized metastives. The authors case showed the largest and most extensive metastases ever reported.

Teratoma is the type of tumor most often found in infancy and early childhood Seminomes are

usually found in later life

The prognosis of malignant testicular tumors especially teratomata is very grave. Simple castra tion is inadequate. Louis Neuwell M.D.

MISCELLANEOUS

Von Lackum W and Hager B H Mercuro chrome 220 Soluble as a Valuable Adjuvant to the Silver Compounds in the Treatment of Gonorrhea and Its Complications J Am M A 1923 Ikxt 1926

From an experimental investigation of the clinical value of mercurochrome 220 soluble the following conclusions were drawn

I Solutions of mercurochrome are very unstable and should not be used if they have stood longer than

seventy two hours

2 Tolerance of the gonococci results if the treat
ment is continuous

3 In the urethra o 25 per cent solutions are just as efficacious as stronger solutions and cause no dis

tressing symptoms

4 Mercurochrome is not a substitute for silver
compounds but is most effective a hen used in con

compounds but is most effective then used in conjunction with them

To the previous routine form of treatment for

acute gonorrhota in the male v hich for convenience was divided into four periods ranging from seven to ten days each the use of a freshly prepared mercu rochrome solution has been added

First and the protection of th

retained for ten minutes by means of an ord nary

rubber band placed around the glans between the corona and the meatus. The drug used in the office treatment is the opposite of that used by the patient. Second Period—mercurochrome with protarum

strong (protargol) and protargin mild The protargin mild injections are replaced by 0 5 per cent protargin stong solution a 0.5 per cent solution of mercurochrome being used for alternate periods of three days each 1 he daily office treatments of anterior and posterior injections of 1 per cent mercurochrome and operations of the days continued to the continued of the days of

At the end of the first period there is much less discharge and the secretion is usually free from gono eocci. With the changed treatment however an increase in the dicharge is often noted in the second period and often the organisms occur temporarily the result of the stimulating and designation of the proturing strong. The increased discharge usually subsides by the end of the second period but sometimes the treatment must be profounded for few days.

Third period-stimulation At the time there are ordinarily no subjects e symptoms and slight if any objective signs A small sound is passed for the purpose of making a background over which to express the urethral follicles and to flatten out granu lations This is followed by the slow injection into the ante for and posterior urethra of a 1 per cent silver nitrate solution which is massiged lightly into th tissues Repetition of this treatment depend on the recurrence or absence of symptoms. In the absence of symptoms the treatment is repeated with sounds of increasing size and on intermittent days by catheter irrigations (Diday method) of weak warm potassium permanganate to which a little weak silver nitrate solution is occasionally added. During this period the prostatic secretions are expressed for examination as infection of the prostate follicles usually takes place and as a rule slight massage of the prostate at this time prevents future trouble

in the gland
Fourth period—irrigations At this stage resolution occurs rapidly and the utine: carefully watched toon occurs rapidly and the utine: carefully watched in a few specks remain an occasional sound and possibly the injection of a per cent silver intrate may sometimer that expression of the prost state may sometimer that expression of the prostate may sometimer that it is not seen to thous are continued dail. If the cond tion seems somewhat resistant anterior and posterior Koll man dilators may be pas ed and the urethra dilated to 33 or 35 F after which a urethral injection of a per cent silver may be prostated in the absence of a per cent silver may be prostated and the patient is then dismissed from several days and the patient is then dismissed from observation.

The foregoing division is of course arbitrary for personal judgment must be exercised in all cases. The periods may be lengthened or shortened

The experience of the authors leads them to believe that if the treatment described terminated with mechanical chemical and instrumental stimulation

does not produce evidence of infection any remaining organisms are so attenuated that the improved bodily resistance will soon destroy them

The treatment of patients with earl chronic growthera and its complications has I en a street to meet the symptoms. Protargin strong an I mercuro chrome to the urethra and I local care of the urethral adnexa appear to be indicated. If a discharge per sists the urethral adnexa is usually be found to hirdor infection and prompt respon e silt result from additional massage of the protate set of the protate set of the protate set of the protate set of the unit of the protate set of the urethral over soun is folio e 11 a few injections of silt en ratter alt maded.

mercurechrome

The treatment of gono that in the femal luring
the acute stage is legan ly smalling the cry x and
viult with tineture of 10 line or a 2 per cent olution
of silver intrate. I rolu e legatumation o curs
after which the protation mild and mer urochrome

tr atment is begun. The vag na is wiped dry pure ery stats of mercurochrome are placed in the os of the cervix and the vault is swabbed out with a r per cent freshly made mercurochrome solution This alternated daily with protargin mild crestals in the os and swabbing of the vagina with a sper cent protargin mil I solution. The urethra is injected dail o 5 per cent mercurochrome being alternated with 5 per cent protargin strong The patient is instructed to use hot weak solutions of potassium perman ganate as a douche from two to four times a day and to sit in a tub of hot water five minutes erch night and morning. This treatment is con-tinue! for approximately two weeks after which it is alternate I daily with weak sol tions of a her nitrate and 5 per cent solutions of protargin strong to the cervix and soult. The daily douches are change I from potassium permanganate to warm t fine solution (3 75 c cm of the tincture of todine to 1 000 c cm of water) B H Hsc R MD

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Le iche and Haour Regeneration of the D aph yses of the Adult Rabbit After Re ection Experimental Research Regarding the Rôle of the Pe iosteum (De la rég é at o de daphyses he lapan ad lite ap è rée t n daphy tre h hes expériment! su l ôl du pé ost) Ly chr. 1021 x 838

This is a brief report of a series of experiments on the regeneration of bone which were begun in 1920. The following procedure was carried out

1 Subperiosteal resection with detachment of all bone spicules and careful reconstruction of the periosteal sheath. This operation resulted in complete regeneration which was far advanced in tventy eight days.

2 Subperiosteal re-ection without the removal of loose bone fragments and without reconstruction of the periosteum. This experiment was not followed

by regeneration as late as ten months
3 Subperiosteal resection with the removal of ill
bone spicules but without suture of the periosteal
sheath The Yray showel no bone regeneration
at the end of 124 days and none as found at

necropsy at the end of ten months
4 Extraperiosteal resection of the radius followed by the interposition of a human vein filled with congulated bloo! No regeneration occurred

after six months

5 Detachment of a pedicled flap of perso teum and bone fragment from the tibra and its insertion in the muscles of the leg beneath the fascia. O sification of the flap was rapid and could be seen by means of the \ ray ith nt enty \ is.

6 The same oper tion as No 5 but ith severance of the ped cle. No ossification occurred

The authors conclude th t in the th ence of periosteum os ificition does not occur even when bone fragments are present. Per tosteum loes not produce bone but becomes ossified 1 other words to plays a pass e not an acti e rôle. In the dult the periosteum has no physiological fun t on but t may be given a function by the urgeon

GV CF12XJ

Deichef Cong nital L1 ation of t1 Scapula (Lélé at n gé t1 d 1 m pl t) Rer d th p 9 3 6

Congental le at on of the s pula shoul I be con situated as the capt s ion of d tu b nee fembroon its segmentat on hich en l n malform to on of the auril sk let n a l of th mu les of the scapular region It the re ult of a re tin th normal migra ton of the scapula The supernumerary bone parts described in a number of case reports are therefore not the cau e of the malformation but only accidental complication.

Physiotherapy and orthopedic treatment are of value only from the standpoint of the prevention of secon lary scolosis. Severe cases and especially those with limitation of movement present indications for urgery. W. BERNAN

This article is based on forty eight cases treated by various surgeons at the Johns Hopkin Hospital Children's Hospital School Bultimore and in pit ate practice. Davis states that the adhesions are not always preventable as the patient's condition at the time the adhesions are forming may interdict proper treatment. I ractically all of the cases reviewed were due to third degree burns.

The author dascusses the literature and the vanous treatments proposed. He states that no single operative procedure is applicable to every type of author view of the nearly all of the cases reviewed several operations were necessary to restore function completely and in each of the secondary operations new problems were presented which required different methods of attack. The efficiency of an operation for the relief of arm chest adhesions can be determined only after the lapse of considerable time therefore the end results should not be recorded before at least one year.

CHISTER C SCHLEIDER M D

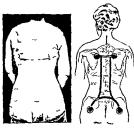
Port r J L and Lewin P A Special Corset for
Some B ck Conditions J 1m M 1 1 r 1923

1 3

In an en levior to obtain a simple inconspicuous spinal support the authors have found a special cor set very satisf eton. This is not offered as a sub stitute for the Taylor spine brace. It is presented as a last stage or assurance support to be used in mild back cases or after active treatment has been concluded in severe cases.

It has the advantage that it is inconspicuous. It has been found of great value for several years in the follow up treatment of curef tuberculosis of the spine osteo arthritis of the spine fracture of the spine stoolosis back strain round shoulders sacro-liac conditions pol omyel tie spine and other conditions.

The corset is a front lace corset i ith a wide pelvic band and shoul ler straps. When the steels have been adjusted by menus of bar i renches they are incorporated in the corset and do not show. There



Fg 1 (at 1 ft) Steels witho t a U b n 1 inc rporated in the coret Fi 2 Outline of co et steel with elation t kelet l tructures

is a type of corset with shoulder straps and a type with perineal straps The types of steel inserts include a long type vith a pelvic band a short type with a pelvic band along type with a U band a sho t type with a U band and a long type 1 ith an axillary crutch and a long pelvic band with an iliac crest

Cold rolled steel 36 by 16 in 15 u ed because it is malleable and strong It should be nickel plated There are two uprights two cross pieces and two flat round plates at th top The plates are padde I with felt and covered vith leather If a U band is indi cated two similar plates are used belo p rineal straps are us d their ends are secured to the edges of the plates The steels are fashioned over a plaster of Paris shell of the patient's back. This shell is made as follows

With patient lying prone the skin of the back is mon tened and the outline of the steels are mad with an indelible pencil The back is covered with a very thin laver of petrol turn avoid ng the indel ble markings Then six or seven single sheets of crino line impregnated with plaster of Laris cre m are applied. After ten or fifteen minutes the hardened shell 1 carefully removed and bung up to dry

D ID H LEVINTHAL, M D

Proelich Chronic Non Tubercul us Arthriti of the H p in th Young or Growth Could's (Des a thr tes ch niques n n tub roul u s de l h pe age u t s de cro ssance) Res à Par 1923 h 473

The types of non tuberculous arth itis of the hin may be d' ided into four classes f Dry chro ic courts with progressive d sloca tion of the head of the femur

2 Progressive burrowing of the acetabular cavity by the intact head of the femur

Juven le deforming osteochondritis

The essential coxa vara of adolescents

The author reports the clinical histories and roent genological find ngs for twenty to cases He states that in evolution and pathological anatomy the condition differs very greatly from the classical coti is

Frochch suggests that dry coxitis with progress e wearing away of the femoral head and of the roof of the cavity might be due to some primary malforma tion of the acetabular cavity or to a congenital dis location

The pathogenes > of the second type is obscure The head of the femus remains intact and the path ologic process remains limited to the lower portion of the acetabular cavity which softens and yields beneath the pressure of the head of the femur

Ls. ential coxa vara of growth is a d case of the ep physeal cartilage of the upper border of the femur which occurs in subjects between 12 and 18 years of age. It is not strictly speaking a coxa vara. It is rath ragr wth epiphysitis the lesion being due to a functional disturbance of the epiphyseal cartilage It lasts for from eighteen months to two years and when not treated terminates in stiffness of the joi t

cau ing more or less p onounced limpi g The d fferential diagnosis bet veen the different types of non tuberculous courts in the child can be m de only from a consideration of the 'x ray find ings in c njunction with the cl n cal symptoms

Es ential coxa vara is more frequent in males than in females Histologic examination i dicates that the cause is an inflammatory process. This is probably injectious but only exceptionally has the inject ing agent been detected. The findings in the ee of the autho s cases suggest that there is some d sturbance of the endocrine glands

The best treatment consists in relie ing the joint from the eight of the body as compl tely as pos ibl The child should I e down a cons detable part of the time and then he stands the thighs should be kept separated by an apparatus to pre ent the adduction contraction and the typ cal deformity of the head of the femur Bone forming drugs should b adm: is W A BRE WAN tered

Evolution of the Longitudinal M ton D J Arch of th Hum n Foot JB & J ntS e 9 4 7 50

This paper is the result of resea chido e chiefly at the Ame ican Museum of Nat ral H tory in New York

The foot of the lowest monkey the descend at of small terrestial quadrupeds has a ery small heel bone lo g metatarsals and sh rt digits. The great toe proje to from the b rier of the foot at angle and the longitude al ax s of lev rage pas es through the thi d metatarsal. The longest digit is the fourth The foot is su ted to grasping the limbs of trees

The chimnangee foot shows a longer heel shorter metatarsals and longer digits. The great toe lies closer to the border of the foot and the line of leverage passes between the first and second metatarsals The longest digit is the third

In the gorilla the heel is still larger in proportion to the whole foot and the metatarsals are somewhat shorter and thicker The great toe is closer to the edge of the foot and the leverage line passes between it and the second metatarsal. The longest digit is

the third

In the human foot the heel is of still greater propor tionate size making up more than half the length of the foot while in the original monkey it constituted only about one third. The first metatarsal is strongly developed and lies with its great toe parallel with the inner border of the foot. The line of leverage passes between the first and second metatarsals but closer to the first than the second The longest digit may be the first or second

The development of the human foot from lower forms follows Wolff s law Characteristic structure and di tinctive function are associated when there 1 a change in the manner in which a certain type of foot is used modification of struc

ture is inevitable

It has been said that the human longitudinal arch developed as the result of the supinated position of the arboreal foot but careful study shows that this original supination flattened down completely when terrestrial habits were adonted and that the arch arose as a result of mechanical leverage. One of the earliest changes was the adaptation of the heel for weight bearing. The shift of the body weight toward the mesial side of the foot as in balancing caused the leverage to come between the first and second metatarsals and necessitated a strong devel opment of the messal border. In the early arched foot the inner cunciform rested on the ground caus ing a break and making a posterior and anterior lon gitudinal arch In the further development of flex ibility the contact with the ground was broken and the cuneiform was gradually rused this creating the

final long single arch

When the foot is viewed from above it is seen that in the chimpanzee the great toe and its metatarsal are so far adducted from the inner bo der that a hen the heel is raised with the toes as fulcra there is a break in the line leverage due to the wide separation of the anterior supporting points As the great toe and fi st metatars I approximate the inner border this break is straightened out In the lateral mesial view it i seen that the os calcis of the gorilla foot is more nearly pa allel with the ground than the human foot and that the articular facets including the sustentaculum slant downward forward and With development of the gastrocnemius muscle group the os calcis changed its inclination Therefore in the hum n foot the anterior end of this bone is elevated and the enti e bone is rotated out ward this giving a more nearly hori ontal plane to the articular facets

It is evident on careful analysis that the human foot was developed as the result of active leverage action instead of for purely passive weight bearing A more stable passive foot for supporting weight would have resulted if the first metatarsal had been kept in its original adducted position but facility of action would have been impaired. The tendency of the human foot to pronate is explained by the fact that only a slight degree of inward rotation of the os calcis is necessary to disturb the level of the articular facets to such an extent that the weight thrust tends to push inward from these frictionless facets

WILLIAM A CLARK M D

Allison N Apophysitis of the Os Calcis A Clin ical Report J Bo e& Jo ISu g 1024 vi or

Apophysitis of the os calcis is described in text books as painful heel causing diff culty in walking and in rising on the toes. It is a self limited disease and does not result in permanent disability or deformity It has been thought analogous to Oscood a disease of the tibial tubercle the pull of the Achilles tendon causing irritation and loosening of a growing eniphysis Recent cases observed by the author suggest that the lesion is an osteochondritis due to the same cause as Legg s di case of the upper femo ral epiphysis It occurs in the formative period between the seventh and fourteenth years and usually in rather heavy boys There is a cap-like epiphy sis with roughening and partial disintegration of the bone substance

Not sufficient time has elapsed to record the end results in the recent cases mentioned but it seems that ultimately there will be a change similar to

that occurring in Legg's disease

WILLIAM A CLARK M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC.

H bbs R A A Report of Fifty N ne Cases of Scolio s Treated by the Fusion Operation & Jo 1Su g 1924 VI 3

The fifty nine cases reported were treated at the New York Orthopedic Dispensary and Hospital in the period from 1914 to 1919 the operations being done by four different surgeons It was pos ible to study the end results in forty five The fourteen other patients did not return for final examination The ages ranged from 3 to 20 years and the length of time between the operation and the final examina tion from three and one half to nine years All of the patients showed evidence of infantile paralysis and twenty nine of them had paralysis of the legs as well as of the spine In mineteen the abdominal mus cles were involved eight were unable to sit up. In a large percentage of the cases the scoliosis was marked and in all of them it was progressive in spite of treat ment by gymnastics and the application of braces The earlier cases had very little correction of the deformity before operation In the later ones an attempt was made to obtain the maximum pre op

erative corrects in hy means of constant tra tion in the head and pely sin a frame Chille n will stan !

A stretching force of 25 to 10 Il

In the Hibbs operation the peristeum o er the tas of the spin us taxes ex of the vertel er to be fu ed is silt longitu i nalls and pushed to either side the proce ses being I it bare. The inter pinons bigaments are also split an I th lateral h lves jushed forwar! The il s ecti n is then carrie! further for war I until all the spinous processes the po terior s reaces of the lamine and the lase of th trans actse proces es are b r The I gamentum sul flavor thus expos I is remove I from the laming with a cur tte and the art ulations of the lateral processes are distroyed to produce ankylos sat thes points. A substantial piece of bone i then elevat 1 from the adjacent elecs of each lamina, the in e en i of the piece fr m above is turned d wn to make con tact with the lamina below an lar icce fr in below is turne lunwar It the I mins at ve Fach spinous process is then partially hard fandturned I waso that its tip makes contact with the bare bone I the s richts be' w. In the lumbar region the processes are that ngitu hin. He and one half is turn I I wn and the other up. The ligament and periosteum are elect with ten-day chromic gut. The I se t on must be sub-enosteal an I ham tih z mu t be well e ntrolle lit gacking

Imme hately after the operation the patient place I on a bed without springs After two weeks when the wound is healed the final tra tion tacket is applie! As th son a more motile after th I section the greatest am unt of corrects n can be of tained. The tracti njacket ist it onf reix we ke and during the tim the patient is k It in be ! removable fa k t is then wo n f r six to tw ! month an at the en l of this period all support i

In most of the eases reviewed the number for ttre fused ra k I from xt t le tut in tw in one case sixteen

In the fifty n ne cases there were to lath one Lie to lot ir pneumonia and one to aci !

to a occurred in o e case

Occal nally natural fu | n was found at pera tion but it never exten! lover a ufficent ir at prevent progress I the I formity. In these a t much improvement in the al gament of the pin wa of tame i b t subjective symptoms werer he i ard an increase of the curve was prevente I by per

to fusion

Le ellent en l'results were of taine ! n 48 9 per cent libetwes Bith si me nter ri ge nit tute that were pract cally normal I : 15 5 per e t the result w s good the deform to state na , and the princit in good con I tion an I a tiv the patential was fair In 6 6 per ent t was poor becau e of extensi e paralys s

becau receivement of the first to h The author s conclus ons ar as f ll ws

1. We have in fu i n a means of presents e no gre a I the del rmits in paralytic scol osl 2 The operation shull be I be buf re gross

d formity has occurre las it is eas er to prevent than to correct such d formity t Vierfu on th ut ight t sture smaintaine!

with greater ease and trunk movem at causes he fatigue WILLIAM A CLUB MID

FRACTURES AND DISLOCATIONS

Sincl ir M. Recent Clan es in Fract re Treat ment R (M J tatt i att

The fir t requi to in the treatment of fractures is a satisfactory roentgenogram whi hid mon trates the site of the fracture, the shape and position of the fragme is the natur of any part injuries the pre chee or al a rec of gas caneren and air in the soft ti ues and the formation and character of callus an I bone union

Interoposterior lateral and whenever possible t record a roentgen gram shull be mal with the by e a free as now ble from dre mes and

metal

I xa t appost n of the fragment is essential as a g wid anatom cal re ult is f ll eil to a good func to hal result. At position i effect dimost succesfully in the arm and lee with the Thorn a sol t Sinclair mphasizes th ampo tance of en appoint

aml plarce with Thomas ; ats

If on-operative att mits it refuction re un ucce sint onen operation is n cessary. The fracture en is may be plat i wared or bolte ! Hates hould be r m we t wh a the roentgenogram shows bene report Wiring has it in all antages over il ting sit may be lo much more e ly the ugh a am il incr i n and in inf ted fract res and it I m ge to th ti sue Bolting is grefer uses l al le to tain mile t I ca wespe alla those in whi hele fractur is a ar a wint

Rinter's Reim MD

Ryerson I W Tl Treatm nt of Fract res from an Indu tei I Sta dpoint J B 3 t 0 4

Everson liscu es som f th gen ral ponts in the tre time t I fra tures I the long bones urging p rti ul ly the wid r ppl ati of phy othera pouts methods a d the u of fl ts an i apparat s in tead of them r convenient a lies expensi e first roffar c reular ca to Hel leves th t by these methods by go n be had ne landth period of d ablty let it is horn !

CH TERE Y

Boorstein S W nd Land m n I J The Treat m at of Fractures by Orthopedic M thod 011 1 45 2 03

This article c naists I rith most pait of quita t on from the lit rature. The old an l new metho is are ontrastel as f !! v

```
NEW METHODS
    OLD METHOUS
                             Immedia ed to fth
   R d
        f th fac
        ling b bs ld
                         f t
  th
   Rd on I h frat reby
                             Red to fbfact
                         ar da
                                  w b
                                        1
leg too b
                         m sel p tl
                           3 Imm ! liza
                                        t p
 3 Maxim m mmibliza io f
                          lop g by th m x la mm
k yo t bo
             d b l w th
                         wh h
                                  th 1
                                             be
bre k
                                  t U
                                       11 y
                                            ly
                          1 1 d
                              nel ted
                         ş t
                                            plast
                             Th prl
 a The optic t
                I t ght
                                              f m
ri ts
                                pl t h ped
                          t th h pe f th 1 mb
 s Imm than to fbo
                           5 Imm blum
                                           iv
                                              Œ
                            tly lo g to pres
                                            1 pps g
  t by bad ges h h
                    11
        tarm to be oc
                          f th f gm.
 plac
 rr đ
                           6 Pperefh sofpat
 6 N pa
                I th sof
                          by ly m sa
                                         a
parts ( lo
               tisel
                    4
                            dealy m 1 f h pl t
m scl )
 1 Co
                                txo h ma
poss th ma
  8 Pigico 6 m t t
                            8 V y lyf
 bed
  a late
           ect
               ld1 m
                            9 C
                                          af mty
```

Duch nge R The Study and Treatment of Fractures of th Malar Bone and the Zygoma (Et de t trum nt de f t d l m l et d yg m) J d m d d B d 9 3

Feq teefhron

DENNIS 11 CRILE M D

y oct mg d ing th rea

Lee fith on teen y ly

d gth

(fen ul+dim

ter me

Fifatures of the malar bone and fractures of the zygoma must be studied together as the zygoma is a bony bridge formed in part by the malar bone an I in part by the tempor I bone Fracture of the cranial bones bear nor I ation to them

The cause of fractures of the malar bone and the exposm as direct volence which displaces the bone of the exposm as direct volence to the displaces the bone of the exposm and the points of synostosis with ne ghob ong bon a the orbit in sal bone superior mailla and sygoma are often movel ent in the lesson to a certain extent but in incomplete fractures of one edge the malar bine as we affected alone. When the malar bone inslocated inward the exposition of the exposure of the

Swelling and ordema may disguise the deformity temporal is and as the dip lack of fr gments main freed in the surrounding seous field mobility and orcept us are abent I an p eaeth lowever a d paljat on of the swell in heek re eals extrem ten derniess. Ir rigil rity of the bony arch may be pai pat d One helpful sgn 1 post traumatic trismus I hs 1 all as so found mimediately after I acture of

Inser has as flow d 3 form forms as flow by a first form form to be can be former form to form to

gra lually

the fracture

KELLOGG SPEED M D

Jean and Solcard Fractures of the Pisiform Bone
(I ctures du pisiforme) Rev d o thop 1923 xx

the 2) goma but is usually delayed after fracture of

the malar bone a fact the author explains by

assuming that in zygoma lesions the insertion of the

mas eter is involved primarily while in malar lesions

the inflammatory reaction invades the masseter

bone and the zygoma are not amenable to reduc

tion Treatment must be given early because usually

the displaced imbricated bone rapidly heals in place

and cannot be di lodged. In one case however

replacement was effected as late as twelve days after

After a period of a few days fractures of the malar

Injuries of the pissform bone are rare only about

a dozen cases of dislocation of this bone have been reported in the hierature and few cases of fracture are known

The case reported by the authors was that of a man, who fell backward strin in the ground with his felt v r st in extension and adduction. An anteroposite more contengengam made the following day showed a pi sform fracture. The fracture line was in he form of a \(^1\) the lower inner fragment being the smaller In a lateral roenigenogram the lower outer fragment appeared posterior and was found to compute the greater part of the articular surface. The upper inner branch of the fracture line showed a greater of the greater in showed a greater of the greater in the showed as the surface.

W A BREANAN

Clairmont P and Schin H R Conservative Treatment of Disjoc tion of the Semilunar B ne (Z r k nse att n Bch ndlung der Mo d b enku g) Z t albi f Ch 9 3 1 386

After a 1 rief d scussion of the various types of dis location of the sem lunar bone which is illustrated with roentgenograms the authors targe conservative treatment

An early diagnoss is easily made with the aid of the roentgen ray and is of great importance. In old cases reduction is exceedingly difficult. The dis location of the semilunar bone; often complicated by fracture of the naviously bone with or without dislocation of the proximal navicular fragment and with a wilson of the styloid process.

The best treatment is reduction under snæsthe sia. This is accomplished by maximum dorsal flexion pe ssure upon the dislocated semilunar bone fr in the volar surface and associated maximum volar flexion.

After the reduction immobilization is necessary for only a short time Physiotherapy should be begun early

HARNS (Z)

Charbonnier A.: A Simple Method of Marking the Itend of the F mur and Its Application in Uniting the Itend and Nork with a Scree (itro-till simple the set of a discentre le la lite (fenorale et son a plation dan le vissage d A) Lyo ch to 3 xx 4t

The instrument of marker described consists of four of kel knitting needles 18 cm, in length fas tened together by small p otal metal picces con taining thumb screws which permit adjustment an ! lo king of the system. One peedle forms the line from the antere superior a sac to the pubic spine and the se ord the axis of the femoral neck. The thirl is vertical over the subtrochanteric point and the fourth unites the metal pivot over the anterosepera ril est ice with the metal p votor rthe subtrochanteric site an I gives suf port to the af paratus In 8 mm metalic marker on the needle of the femoral neck a gem from the midpoint on the first recelle indicates the cent rof th femoral head The marker is a liusted an I measure I on the normal side an I then app ed on the fracture Isi fe and roenteerographe! I'e spol ed during the operation it serves The techn que is as follows ing sea

The national is placed that on the V ray table with the fluor spines at the same bright and I el the legs extended to other In the milline and the feet actroposition with the toes up. The market is a lipited on the normal sile I v marks g minutely the II as give the pull spine and I the subtraction tern point (in obeca sul jets it is safficent to give the natile of any ducta in a val col too degree which is the a crase angle for all cused). Two and one hall centimeters from the mipoint between the use and puller spines and the cross bar on the welled were the formed ancek is the center of the



voc. of ratus applied the kellin a recommended and published spies Mist 2 2 1 red serving of lyth trength conference of the serving center of



Fin s Mea u na apparatus in u e

femoral heal This having been determined the insurument is locked ingli with the thamb scress reversed place on the fractured hip and isstence with adhesi or otheral. A comparisonal is the The film is feedinged at once and the making tencel. Hit is found to be accurate the size splice the pull's spline the center of the I moral head and the untrodhanterly point are marked on the skin. If it is in a trate the correction is determined before the removed and ket it find for use downs the correlation.

The \ ray shows the form of the fracture th center of the femoral head the normal angle of the neck and the amount of absluct on necessary at operation to regard the angle of racination. The length of the screw necessary is the distance on the film from the crossbar to the subtrochanteric por t calculated on the bass of similar tria ries tube i 60 cm from the fim and the bone is assumed to be half way bet een these two not to With the patient anasthetize I an I in the sam position as for the roentgenogram the sterrized marker is applied on the points indicated on the skin, the vertical needle is hited back the bone exposed and traction is exerted in the limb with the foot vertical and ith out deviating the pel is until the subtrochintene point arm es at the level of the needle which indicates its normal site. The necessary abduction is then male a hole is trilled in the bone 2 cm below the subtrochanteric crest nearly horizontal with and in the direction of the crossbar and the screw inserted The hea i of the screw should be under the vertical ne dle in licating the sul trochanteric point. When all hip movements are free the screw is well placed. After the operation an \ ray examination should be m to without the marker

The advantages of the apparatus are summarized as follows

t In fracture of the femoral neck it marks the center of the fem ral head on the bass of the finding in the norm I side 2 It gives a fixed point during operation

3 It indicates the amount of extension of the leg necessary to correct the shortening and some times the degree of abduction required

4 The scale on the crossbar gives the length of the screv and facilitates corrections 5 \ ray control during the operation is rendered

unnecessary

6 The screw may be placed with precision
7. The apparatus is simple to construct and to use

and does not impede the operation
8 It gives good localization in all cases

8 It gives good localization in all cases Errors occur most often in the cases of obese sub

pets becau e of diff culty in finding the landmarks
The instrument may be fixed to the iliac and pubic

The instrument may be fixed to the iliac and pubic spi es by silk sutures placed under local anæsthe ia A marker held by adhe we tend to descend and localizes the head too low. When the abdo nen hangs over the groun the apparatus is useless. A pathologi real pelvis may cause error.

Of fifty roentgenograms of normal or fractured hips taken indiscriminately the crossbar was at the center of the head in forty five. When the appara tus was applied to the cadaver and a needle forced to a point corresponding to the crossbar the needle struck within 1 or 2 cm of the center of the head in every case. The author and Jentzer have used the method successfully in three operative cases. The operations were extremely simple and rapidly conducted under spinal anasthesia the po toperative course vas normal and the results were encourag ing. Waltrag C Birker M D

Baudet R and Masmontell F Osteosynthesis of Diaphyseal Fractures of the Leg (Ostéosyn thè e des f ctures d physaire de jamb) J de chir 923 xxii 39

This is a detailed report of the authors technique in reducing fractures of the shaft of the tibia by operation. During the operation constant traction is maintained upon the lower fragment by means of a mechanical apparatus attached to the operating table. Sherman plates are used to immobilize transverse fractures and Parham bands for oblique fractures. The article includes several sketches of the instruments employed and roentgenograms of fractured bones before and after reduction.

LOYAL E DAVIS M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD AFSSELS

Wed nikl k : 1) on I m of Anguri m Followi a Canshot Wound and Its Surgi T Tre Iment d tryr mib th und ha haz rafteat 161 12 1 1 1 1

The act open to be of the act of

Le tie ant I te at r and the various mit was Therestoten lamps eli the ac at an erestremator til wh hart extremte! t Ane nors fee in superce to lel resto

truly is the a fa a loat fer r tofalm a 1 2 The majority of A Hit increte ad

the theory that the a wart mo well ex a 14.7 r hribnihr 1

t ter gt thefr t at of Y win eartiff I withfr t efter inth I ea trainther needs was tendis Digt the grath unt the titeth at energet & de nten ir el l'il Fi 37 after t or the m the el to 1.3

4 litter e sus areur ma estitut es e per eet falaes a lean or net to kealt tal greater I tery to the g litter tim em reinc wrat a he if he per med for 1 wh t ther is 1 enel mirt I littral t tellacorni t th 1 h thin r Mil a nd Moneth w ell the man "c test the till lititrire here I I! I of cultin a teser fwittel es lett riculita oft 1 in the perithery last fahe e tr min n a life pe from lace wing to then that f

In last of the main tend care a the tal n tio dam retbe e llateral s Thelb get tech me withle tin fite after tanler cent after es and esting t n f the celtheaner at 1 utantisett ult n Lity t the cast rat. The bes mith to the 11 e M t so eration

Barra id: Multiple Di tant V n us Ti romboses In a Case of Ti con bop! I bit! of the Lateral 1 Aural Orl Ing Cure (Tir mi ...

er hatt tell petd 5 udly 14 0 4 x 55

Bra lapateit na a a 27 ca water tell restill 1 th rant 1 t t as weath eir fen linsafter pe i n mele masteld phlegm nappeared a fel en Inself ethron! blitt fel lat raf !

I grant a lack and II the milest and a the s lelt ian the tith at the oad f I t all the larger we at f arm and m th I cita my write lack tom the peck t th it t ret On the thirtha it dis th we wittem fitt till ca lifer rat swith me felt Im a 1f t Smust m fat befenthelfte Cer traim twiths am strieg at machite 12tl | 12t elt fit art ni bite ift of a 1 me tol that on he In the a elimberthmel the tt elm tet ant et ea fter tet

Irank I Mesentirk I cu Occiu i n R port of There Caves In Children te J S ; ; ;

7 4

11 a th In wa mt r and i ret * h = 1 1 14 to tre 41 2 t 7 1 11 a rtic that may or arteri 1 r what In men to thumb I mat nfa v t - sert C1 12 c lineaus getane att g et l ea et gelf tein Du. - 1 (ts n fil latet je tn 1 t 1 1 If TACIO th perceal phili 23 21 7 toph If r *C 1 C n #mt 2 1 c ca? 1 0 410 ŧ u 15 al new gowth 1h : 11 · free 11 1 , m 1 n. I t cdara

nsct t h e r nt rmitte tit ilinia it tit uin the fact bot me the remember 1 1 1 1 2 n ní! t 11 4 rs f orker pro tel lin mi tilb t moretature will tit t malmal e to pare

1 t peat i

for I h ead th Julse al res that be ak hi i i rhii t t m 1 nd r le the nert net a 1th vinitus ed whited Intla h g 1 mt ra tlutt. tet nicht bemilt con rt t uting look tired tus ni I tin rith nist mritt itd nist l n

TI tg foltrut Ith total Hood () preme again ; 5 1 Pd (a) hs 11 peirm sent re rerea m st

in ldr til be thitle (2) Its nouth is near rith ! minal rta nd (1) I runs

f g nto

pearly parallel with the abdominal aorta. The anas tomoses with the mesenteric ves els are very small and not adequate

Operation should be performed as soon as possible as the condition is serious as soon as symptoms are

present

The mortality has been high because usually the treatment has not been given early Resection of the gangrenous intestine and anastomosis are indicated or if the patient's condition is very poor the two ends of the intestine may be brought out of the abdomen temporarily

The author reports three cases

MARCIS H HOBART M D

Arterial Embolism of the Limbs and Sencert L Its Surgical Treatment (Les mboles artér II d membres et leur t t m nt h u gi l) R d ch Par 9 3 l 623

The usual point of origin of arterial emboli is the left heart and the usual cause of such clots is an organic lesion of the mitral valve. Other causes are acute and subacute myocarditis and surgical operation

Arterial emboli have a predilection for the points of bifurcation of the arterial trunk Secondary thromboses may render the surgical localization of the emboli difficult but in Sencert's opinion these

thromboses are formed late

Ordinarily diagnosis is not difficult. If oblitera tion of the vessel is sudden and complete the symp toms appear with a suddenness and intensity hich leave no doubt. If the occlusion is at first incomplete there are disturbances of sensation and motility which sometimes are diff cult to interpret and may be

confused with those due to acute or chronic arteritis The localization of an embolus is done best by exploring the peripheral pulse. If on exploration of the limb from below upward the pulse i first found absent and then suddenly appears at a certain point

in the trajectory of the artery the latter point is the site of the embolus

The only method of treating arterial embolism of the limbs is arteriotomy and extraction of the clot Absolute aseps and accurate technique a e essen tial because an infection too slight to provoke the least clinical manifestation may set up a thrombosis in a sutured essel Before opening the vessel Sencert irrigates the region with a per cent citr te of soda solution and place compresses wet with the solution on each side of the artery He belie es it best to incise the vessel at the site of the embolus rather than just above or belo it because if the intima is altered it can be seen and action can be taken accordingly The clot is removed by introduc ing a curved forceps or a Velaton sound through the arterial opening. The ves el must then be care fully explored and the exploration followed by citrate of soda lavage

Since the first failures reported by Lejars in 10 4 more than one fourth of the patients subjected to embolectomy have been cured II A BRENNAN

BLOOD AND TRANSFUSION

Colebrook L and Storer E J On Immuno transfusion Lanc 1 923 CV 1341 1394

It has been demon trated by Wright that simple transfusion is of little value in severe septicæmia be cause as a rule normal blood contains fewer protec tive substances than the blood of the infected patient Wright therefore proposed the infusion of immunized blood The purpose of immuno transfu sion is to furnish the body with a bactericidal plasma which contains in addition a large number of normal leucocytes capable of making an active immunizing response The method is a last resource when all the surgeon can do has been done and when no response can be obtained by vaccines

One of three tests may be employed to determine whether the patient should be treated by the inocu lation of a vaccine or by immuno transfusion. These are the vaccine response test, the estimation of the phagocytic power of the patient's blood and the chiastic test of Wright The authors describe the technique of each in detail. If the leucocytic efficiency of the patient's blood is reduced to one third that of normal blood the blood is incapable of making immunizing responses and immuno trans

fusion is necessary

The donor is chosen as for an ordinary transfusion and his blood then immunized Wright has shown that the addition of vaccine to blood in titro results in the elaboration of p otective sub-tances v hich are derived from the leucocyte and are non specific in character The authors at first immunized the do or s blood by the intravenou injection of vaccine but later found it more practical to make a subcutaneous moculation of vaccine

Within one to five hours the blood acquires a con siderably increased hæmo bactericidal power. This increased no er exerts its effect non specifically ari s w th the dose of the vaccine and usually dis appears after forty eight hours. The authors use routinely a subcutaneous inoculation of 1 000 mil hons of a stock staphylococcus vaccine and draw off the blood after four or five hours

The add tion to the blood o d calcifying agents such as sodium citrate to prevent coagulation have been found to impair the functions of the leucocytes Therefore unaltered blood or defibrinated blood should be used The latter has been found the more practical Defibrinated blood has lost 25 to 30 per cent of its leucocytes but the loss makes little dif ference in its bactericidal pov er For a short time fter its collection defibrinated blood contains active fibrin ferment which rapidly clots fresh blood in r tro but there is no danger of intravascular clotting because the fibrin ferment is inactive on blood in

The blood for transfusion is drawn into a bottle which contains a fixed glass rod and is defibrinated by constantly rotating the bottle v hile it is filling and for from four to six minutes after the needle is with drawn from the vein Experiments have shown that



SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Lee W E The Surgical Treatment of Burns
Ti p G 1923 3 var 845

From results of experimental work, the nuthor is consunced that burns should be given the same treat ment as oth r types of traumitie's ound. A compair on of the pathology of burns with the inflam matory reaction of the tuse to other types of injury will demonstrate that the local and general change are leinted. Varitions are in degree only

never in kind

The treatment is general and local Lee relic es the pain with large dose of morphin and covers the exposed n rve endings with sterile oil Harsh dress ings are omitted altoge her or impregnated with oil or way Dead to sue a removed as early a possible During the period of shock weak antiseptic oils are applied to the necrotic tissues At the end of ti enty four hours all loose and detached tis ues are r moved ith the scis ors and the burned pit is imme sed for one hour every lay in a 2 p r cent aqueous solution of sodium bicarl onate viou dressing which prevent external drainage are to be condemned. These include surgical lint upon which ointments are spread and the so called wax shell of ambrine or its sub titute

Lee has groupe I his cases of burns as fa a local treatment is concerned into (1) non infecte 1 (2) contam nated (3) infected and (4) suppurating Non infected burns include the e of the fi st and second degrees in which the bliste are unbroken In the type prim ry clo ure and the pre ention of secondary infect on are clearly in licated. The ai tight occlusive dressing pro id I by a paraff n film may be regarded as a p im ry lo ur C se of burns which can be treated vithin the first three hour af er the injury and i hich to po ible nt els to remove the dead r de stals id t ue by mech nical means are classified contam nated. The p imary closure of thes bu s with a par ffin film 1 at tempted provided a m c oscop c examination of the exudate sho s the absence of tr pt cocci Burns of the third deg ce are cla sit la infectel from the tyelfth to be twenty fourth how after the receipt of the injury and s supp ating fte seventy two hours

For chemical d bril ment dauly imm isson given for a period of one hour a period in that of sod um breathon is entitled in a period in the greek P. The surface sar thin you it he tell r to the rist of the 't fur hus'. When the truling the lofts the surface and the surface surface and the surface surface and the surface surfa

blanket tent ma le ov r the led un ler which a con stant temperature of 98 to 100 degrees l 1 maintain ed with electric lights

The author concludes his article with the following summary

- I As burns differ widely in degree character of ti us destruction bacterial content, and progress of healing no one procedure nor any one solution will prove equally valuable for all cases and all stages.
- 2 The same factors infection and necrotic tisues are present in burns as in all traumatic ounds and therefore the principles found of practical value in the treatment of other traumatic wound apply to their treatment
- 3 The covering of vounds vith imperviou dress ings such as vax i lms is to a certain extent comparable to the surgical closure of trumatic wound and should be governed by the time that has elapsed since the accident the type of infection the bacterial content of the wound and the presence of necrotic tisse.
- 4 The debridement of burn by surgical exci ion though theoretically ideal is usually a mechanical impossibility. Dalain solution when it can be borne by the patient chemically removes the necro tic uses of burns as satt frictorily as in traumatur wounts but unfortunately only a small percentage rounds to the particular of the particul
- 5 Until the condition of surgical sterility 1 obtained the necessary drainage 1 provided by a single laver of vide meesh parafin gauze the exposure of the part to the air and a die sing that will float off the vound with minimal trauma at the time of 1 ity imm rs on
 - 6 If burned surfaces are exposed to the air it is
 it ually necessary to employ a chemical entire term.
- u ually necessary, to employ a chemical and in epite to obtain and miniman surgical sterility. The chlorine group of ant septic have groved most saft factors for this purpose. Ho were solution must be test do that no irritating frechlorine or hydrochloric acid will be apple if we week strengths should be used at first 1 s x eak strengths should be used at first 1 s x eak set for the should be used at first 1 s x eak so for execution of the antisept c its strength may be gradually increased to y of 1 per cent
- 7 The rate of gro th of new skin and of grafted skin is at the maximum upon surfaces which have eached the condition of sterility in the shortest pc i) lof time
- 8 The amount of scar ti us formed after burns and the consequent contractures are in direct proportion to the amount of t sue destroyed by the

original traumatizing agent and to the type degree and duration of the infection The preparation of the paraffined fly netting used

by the author as a dressing for burns is described in detail

EMIL C RO ITSHEE M D

Delvaux The Transplantation of Skin Grafts under the Action of a Current of Warm Air (Tran pl natuo d greffes fed mingu sous lactin a dun courant d chaud) Bill t s ém Sc d h d P 10 3 th 100

Instead of curetting away the granulations the author directs a current of sam are upon the surface to be covere I with a graft. In this way he oblights to be covere I with a graft. In this way he oblights of value in keeping the grafts wable. After the Therench grafts are applied the warm are is played over them for several hours until the serum between their edges a dened. After they are dry they remain in place. A light dressing is then applied.

To Ava E D ways 14 D.

Montague J F A New Type of Mattre Partic ul riy Ad pted for Us in Cases of Rectal incon tinenc S rg Gy ec & Obst 19 4 x xv 17

In size and general appearance the mattress described resembles an ordin by single bed mattress It may be used on any bed or spring. In the center of it is a recess to accommodate a receptacle for the recent. The transfer of the recent is the recent to the recent in t



Fig t The recess in the matters with the eceptaci



Fb Th m tire mplete it the r c ptacl has b n rem ed d the sect ons ha been eplaced

the section is withdrawn. This mattress prevents
the strain on the heart and on sutures which attends
the use of the bed pan with the ordinary mattress

EMIL C. ROBITSHER M.D.

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Delater The Relation of Local Immunization to General Immunity Mod rn Tendences to Explain Inf ction and Immu ity by a Process of Local Reactin L call Accination (D lamma trained alimmunities of all ted nes mod rates a pluper in facts net i mmunity pr u processes defects on I call be vacc to I all Prs mde Pr 9 4 u 3

To date except for smallpox vaccination has been given uniformly by subcutaneous injection. Often the resulting focal reaction offset to a large extent the immuniant value of the p occure and the immuniant value of the poccure and the immuniant value of the process of the pro

In this article the author reports the results of a series of experiments performed on guinea pigs and rabbits with regard to local immunity; in the skin and local immunity in the intest at all. The investigation was based on the following hypotheses and observations.

I Every d sease ha a special point of predilec-

2 Animal may be efractory to a d sease of man but if the recept ve organ 1 sensitized they become susceptible. This shows that their gene alimnumity depended upon local obstruction to the entry of the virus.

3 Immunity is conferred by infection of the selected tissue and general immunity is obtained from local obstruction to the entrance of the disease

4 The serolog cal react on (agglutinat on etc.) s independent of immunity in fact when ne is

found the other 1 usually ab ent
In the first of the three ser es devoted to local im
munity in the kin a carbuncle was taken as a repre
sentate e cond tion The following conclusions were
drawn

The skin is the only receptive organ. Into personnel or intravenous injections caused no harm ful effects if the skin was not contamin ted. If the animal was skinned and the vius injected at random there we note at on but if the virus was applied to excorated skin an immed after action if llowed and the animal deep.

The skin is the only organ to produce immunity is Constitute on conted sk of successive mall amount of attenuated virus confied minus network or and and it travenous meeting and not confere minus by unless the dease is provided in a sensitized soot in the skin (defrasion).

The general reaction doe not produce immu nity In the production of immunity as noted there was no general reaction such as the production of agglutining and the blood of the immunized guinea pig did not protect another guinea pig from infection The second series of experiments with regard to local immunity in the skin dealt with vaccinia these it was again proved that the skin is the only recepti e organ and the only organ to confer immu

nity allo that the general reaction has no part in the production of immunity

The third series of experiments with regard to local immunity in the skin dealt with staphy lococcie and strentococcic infections. It was concluded that in these conditions the organs of predilection are least ectodermal. The results were not definite but cutaneous vaccination had a favorable effect

In the experiments regarding local immunity in the intestinal wall dysentery typhoid and cholera were studied as representative affections Dysentery can be produced experimentally in animals without sensitizing the intestine but to produce typhoid and cholera previous sensitization of the mucosa is necessary The sensitization was accompli hed by feeding bile which destroyed the local prote tive action of the intestinal wall. It was found that the intestine is the only organ of entry and the only one to confer immunity allo that the immunity is independent of the general real tion. When the bacterra were injected intravenously or intraperitoneally the vast majority accumulated in the intestine and gall bladder. In the ab no of intest nal lesions no immunity was conferred As local immunity increas ed the general reaction (agglutining) decreased being no longer necessary but befo e local mmunity de el oped agglutinins were pre ent in abundance

The mechanism of infection by mouth in man is described by the author as follows

The bacilli pass through the unsensitized intestine and accumulate in the m senteric nodes. When the mesenteric nodes break d n a sept cæmia results and in this condit on the bacill a eattracted to their site of positi e trop sm-the intest nal mucosa The mucosa then ha ing been sensiti ed by their pr ious passage becomes the site of ulcerat on If reco ery takes place local immu ity established and the intestinal mucosa remains refractors to fu ther invas on

Expe imental evidence indicates that a similar local immun ty occurs in the lunes

With regard to the p actic I application of local vacc nation the author states that the intestinal type 1e vacci at n by mouth has been idely use I In this method a pill f bile is g en in the morni g and follo ed by tablet of ttenuated cul ture each encas d in gel tin. The is repeated for three succes ive days. Definite minumity results in three r fou days As the a purely all cal process diseases of other parts do not contra indic to the procedu e

Vaillant reports that in an egid mic of typhoid fever in 1922 the infection attacked 8 per cent of

unvaccinated persons and 2 per cent of persons vac cinated subcutaneously but only o 17 per cent of persons vaccinated by the oral route Fleche vac cinated 253 pupil by the subcutaneous method and 260 by the oral method. Ten of the first group develored typhoid fever in a period of twenty days but only five of the second group the last on the eleventh day Other reports confirming the value of local vaccination are cited

In conclusion Delater points out that as certain organs are the sites of invasion and the production of immunity it appears logical to localize vaccination to these organs This method is not only more effi cient but al o easier and more agreeable than others I M Hay M D

Wilkie D P D Page C M Saner F D Mullally G T and Otl ers Discussion on the Treat ment of Acute Primary Infections of the Hand B t M J 9 3 1025

WILLIF states that an incision should never be made at the noin of acute lymphatic infection dur ing the early stage He induces hyperamia locally by means of mo t hot applications and the applica tion of Bier's elastic bandage to the upper arm gives fluid in large quantities by mouth or rectum and injects subcutaneously 50 c cm of polyvalent antistreptococcus serum In suppurative cellulitis early incision with free drainage is always indicated Wilkie makes two lateral incisions in the finger pulp In cases of deep suppuration in the palm an incision should be made between to fingers and a sinus forceps should be thrust in alon a lumbrical canal If this doe not give adequate drainage the web of the finger may be split up into the palm. In cases of suppuration in the thenar spaces through and through drainage of the fi st intero seous space is essential Incisions on the dorsum of the hand are

erv seldom neces arv For the treatment of severe cases of nail fold infection Wilkie advocates the throwing up of the nail fold by a lateral incision at either side and remo al of part of the nail Strands of gauze should be packed between the nail and the fold. In infective teno synovitis an incis on should be made for free drain age as early as possible A general anæsthetic should be administered In some cases it may be necessary even to split the anterior carpal ligament in order to prevent retention above it by adhesions If he sup puration has extended into the forearm a lateral incision should be made on either side just in front of the bones and a forceps thrust through to give free exit to pus burrowing upward under the anterior group of forearm muscles Wilkie does not approve of the use of drainage tubes in these cases In the after treatment most dressings and hot saline baths are and cated but should be stopped as soon as the acute inflammation has subsided. In cases of cellulitis rest should be given until the infection sho is signs of becoming localized Thereafter the sooner movement is encouraged the better Stiff fingers are in the way and should be amputated but this should be I ne only a ser the acute for amount on form the wave. The them! so It always be preserved. Wilkies I are the a me procedure when a Jung for diet grig I !

Lack states that their a shouldbe a lintly it rioal wit to game Helel withat in the pres ence of acute in eat in the te rich eyen of it es with I cer I want. Theus of it maged be or other to an mat rial h regar! as the setically u f ratt tutingractic & pa ketheie i onef e th fet tweete for the e with far Sugause Th. use if a to irm 1 1 has its dargers 1 3 steri e I r sing out to frequentl the gel gives the lest results in the per od of real ting. Dring the to atmert of a calmar i lection it i i o mant to Ares the fing a carely of sed Whind lined com the mere of musber meloutaith a conter a z ite la 1 g bas en v leratle g neral leu n meet in th m t to of the har familife m the use of het ga and lathe. In his especie e att mits at atthre a to on the inter along at

int a store Sava let ex th t when theel eit me ! infamm sel a ac t the c a titute nel turban e t net ex ex e th val e f limit sati n f th while interrette versimatel The stient at uffleouttobels if a bil icailimn shull be amle! When the gate to ill tat n t dallgrog eff nt the local manifestat re m tim she the let in the local manifestat t ter tys to in Inthe hard and rethee Inc. I pen s se th leep fasel and an bewitte felt Carl e thod firtem it th irretin frelannth a llaut chi nl beamt sessesh as they gland Serum while f grathe of tinease of e n ale t nf et n ull n ther lefut nenergible h perates and letit's libelberat Ily an inci nt rl ethe ten in fag i & ftfula to the alue I fr insg tules and g ate pa kin In ca es fir lamn ton or utt ration tth tas of th nal superf ist r dees br i entheentir mal

" creates that if there is later norther me in fight and in ner in gran as a faint has been also also the transfer to the next to the next

splint hull not be fixed duntil all so in spires I (the condition has been arrested. Dr. g in lize to the worst shull be slightly exto the land the fing as in light flex on Vry frejunt fres logs are in a loss? le

Militally offishe I was not the technical detail of tr tm rt almet nt reit t l'erti na of the figer He be ever that in th' rly and acute stages of a mintow the pat ent al miliber nin de be I ami the affecte I ba I sh ald be plac d'at reit on asplicts I lightly e crated. When pur pres ert perating imper tie In al such cases a g calan it ich dillealmi ter Infatour ng ish ullfort fac the ell mutlithe mounts ford firlged th inci net ulike ma alog the r 'll f the palmar surfa and extent to to the set seem nima to bit the I Imat crease i pl tel Tl tje tis to white risactig at all feather a lath It thetr n but be great and n there ar in let Intl 1 lm th lir i naboulidable the pf wix

When the I ad not ath a found to be infected it h livelif penatoke In the case of the m Ite three f gr it sh ull be perel to it ter mouth ninth palm art in the ca of the litter for ta far a the comm nahe the little ex so at th I ret to outh a furth ret | Theu re I rib min ne t tilly at "lin the comman sheath the h thish lilled I pen as far as th anten e neu selve nt lithenu e te l ur r thelgam it thel min s. Ilber's lela lth be the penel of into the fire a Th *cant hultle a hed with a to sed t mant; hel with ir gluse go the minter freely tan ged artemm till t nastt t With pr shouth go n freel In the mett atyliar br Att th the gh ftim theighthand g putont tre rill I hou lite ut Ti I igned half the woutelf stores that is an! thin in the oute galler hill be hanged. The paking h life left list rhelf se ents two hours hith all that the ne wol spent I tach my bein tit ted

H nestrict I fore the I mit fifte then e the ! t ! f r em ; nith miteral ma pare I thresh lat n tih ja es to the tention of the place of atesof inf tig th pies 1th bines 11 tates that their iment for ath peam the get ilani Them Ellmet (grain it incomi th threel m tral allabrent the pu name the f th lett ig theig nith mit h ger The nd hosen is the nowhite north to ! affected If men 1 th three Il f e atta & the best gpr b thr gh the little fng r l ml t l nl Thousastet dilighe that nalit fe se The I ma speed of ule the this gifte fumbre lackes t thrut prft. freps Anulberti u Ian it etclanig Itre in ti friage fth tho pais end thd um nth rtll litheil et r p I orresponding I gibt the haft fill thone The ler mare n f the diut to n rou pol

icis having been identified a pair of artery forceps is fireted around it to the palmar aspect of the mus le. This is not pushed in bey and the middle meta arpal bone for fear of infecting the middle palmar space. The thenar space is then opened and drained in the usual way.

ROBERTS believes that a general anæsthetic and a ourniquet should be used in every case An incision made close to the nail and continued down the sides of the finger to within a short distance of the lover end of the phalana provides perfect drainage by rais ing an anterior flap and prevents damage to the nerve plexus in the pulp of the finger Roberts pre-ters a dressing of paraffin and flavine He of jects to the use of fomentations for longer than forty eight hours If the case is not seen until after that length of time he does not amputate the necrosed phalant at once as often it will recover with the I so of a superficial sequestrum only. He believes that in cases of streptococcal lymphangeitis no incision shou d be made at first but moist heat and hot con tinuous baths should be tried. When the entire arm is swollen he recommends the old fashioned poultice applied from the shoulder to the wrist. On the actua lesion on the finger or hand a boric fomenta tion may be applied. He recommends the flexed position of the hand in affections of the palmar sur face but states that hen the dorsal tendons are involved the extended position is best. He protests against the long median incision in infections of the tendon sheaths as this leads to prolar se of the tendon and a stiff finger Lateral incisions not passing over the joints give adequate drainage and are less often followed by permanent stiffness. Furly movement is of great importance EMIL C ROBITSH & M D

ANÆSTHESIA

Luckhardt A B and Lewis D Etlylene Oxygen
Anæsthesia J 1 1/1 fs 022 lvxxx 1851

In 800 cases of various types in which ethylene was tried it was found superior to other anaesthetics in present use. It is given with oxygen in the proportion of about to to 1. Its advantages are summarized as follor s.

r The induction of anasth sia is rapid quiet and not unpleasant

2 During the period of anæsthe in there is good relaxation without cyanosis

3 It is very sel lom necessary to resort to ether becau e of muscular rigidity

4 There is no sweating (r respiratory irritation a circumstance decreasing the chance of postopera

a circumstance decreasing the chance of postoperative pulmonary complications
5 Recovery usually occurs within two minutes

the patient in that time becoming mentally alert

6 Vomiting is less frequent and less severe than
after ether anæsthesia

7 As ethylene has a less toxic action on the neuro musculature of the bowel at a less apt to cause gas pains than ether

The minor lisa lyantages of ethylene are its un pleisant olor and the fact that it is respon ble perhaps for increase loo ing from the wound. It is ched effect is its high explicibility which probability is us us near a cautery free flame or the source of electrical dicharges. However in view of its and vantages the authors believe it has a very definite place as a general ansishetic an la worthy of se rouss consideration and thorough it all

GEORGE P MCALLIPE M D

PHYSICO-CHLMICAL METHODS IN SURGERY

ROENTGENOLOGY

Falli C and Oulmby F II: The Economics of Doslmetry in Radiotherapy in J hor I gend 1923 944

The authors report experimental data which will enable it a weigenoig it to determin the relative amount of rad attora at an its use depth and to administer it in the most econ much way. The byer of the experiments was tool train of inclusion charges for a deceast target tain of area of letters and aphragms by means of any attora measurements. The equipment and technique used and the preduction to the following several trains taken in making the measurements are discussed in the contraction of the decease of of the d

2 The effect of the use of the fell on the ral 2 ton effective at any particular to sue depth is the same [rall filters and all d tances used in p circe

2 The effect of the filter on rall ation at an particular trising depth is the same for all skin areas and il 1 tances used in practice

3 If all the do a efactors exc pt the targ t sk n

distance are the same the rel ti e d pth dives d pendonly on the in erse squ r law

4. For purpo es of skin disag in reentgenoth

apt the in crse on relaw is apple He provided the same beam of rad ation is electicate the lifferent distances considered

An empiri al equation was devel ped for the cal culation of the am unt of r diati in effecti e at the tissue lepth (includin the surf ce) un ler differ nt

conditions of treatment

Tables an Icharts of the fact its in ol I are given for a volta e of 200 ks (crest value) and a typical

American machine

From the data available in the 1t rature it i shown that these factors can be use 1 by roentg no-logists using machines of this type with ut intro 1 ing all receipt in the calculations.

Efficiency charts for a number of condition of treatment are given. They enable the reentger I gust to determine the most come me all the and targ takindi tance fram part cular treatment

The ch is may be impliced all for the purposes such as the literminit in oith penitaged pth do the number of ports of intrance is re-

d pth do the number of ports of nirs nec + rs to obtain the desired I pth dose to Examples are worked out to illu trat the use of

the equate nanithe charts

The limits of applies bit of the generalization the equation and the chart as I family set forth. The data given extent only sightly beyond the ranges used in the experiments so that no large roots are introduced by the extra polations. In the authors, output no perfort greater the 1s per cent

plu or minus will result from the judicious use f their data by American rooms n logists. The results are independent of m) imperementes.

An are illustrate MD

Des aver F The Lau e of the Action of the X Rays and the C mms Rays of Radium upon Living Cells J R do. 931 411

The nature of the energy produced by the root in ground table, well-known as a raison then lod goal chain en which such energy produces but the man of understant. On the other is still amatter of uncertaint. On the other hand conjugate in kin win gard if the fram formation which occurs during the absorption of rootspensively raises. The also bed rise if levit e electrons in the largetic ergy link is half the needgy of the resurrent visit off the ground still results of the gas occurs.

and centrally their residuals combine before that the distinct state of the combine provided that the distinct state of the control of the co

b mean f lectrons and stable ionization.

b mean 1 iccrtens and stable contaction.

A po ble e planati a ugar eted to the author when ble explanation are to the third as up porter by a number of borras on but a to the supporter by a number of borras on but a to the supporter by a suppor

c tan lapse of time Und ul tedle all of the al bed nigs of the assi c n erted into heat that s k n tic ene go f the parti les f the heate i pe Th total h t prof ed a pre iul cal lated use ce I ngl sm ll but he t is regarded a. d tribut d er all the molec les i the heated pace I'h a ti e ffect st ever mm nt confin i to a es fwm lecules ad group or mol ules. The trm point hat s d to ignif ery high rise of temper t r that sud i nh me into a molecule S n tive undifferen and int the all entell are dimage I when trat i lis un i rgoing m t point heat side el ped in their nuclei Gro inrroces es r en s n incio brat anicold.

On of two assumpts us of especial importance I'm the author's theory is that point heat effect is limited to points at which the electron loses a part of its hieric energy by impact. If at these points there are sensitive cells in critical states which can not endure the temperature impacts upon a part of their molecules these cell will suffer. Cells with a higher resistance such as muscle cells will be able to ressit. Therefore the sensitiveness is a purely bio loored outlity.

The other assumption of especial importance in the author's theory is that the particles struck will be distributed very irregularly throughout the irra diated zone according to the laws of probability If cells of one type that ought to be influenced (car cinoma cells for instance) are di tributed evenly in the irradiated zone it appears probable that during sustained radiation the number of carcinoma cell affected will increase Very soon many of them will be struck for the second or third or greater number of times whereas others will not ha e received the first impact. The number of carcinoma cells not struck once will decrease as the radiation proceed but the rate of decrease becomes slower and slover whereas the number of cell struck a number of times will increase Necessarily after prolonged radiation when the average effect has been obtained most of the carcinoma cells vill have been stru k several times and others a hundred or a thousand tim s yet a few cells must remain which have not been struck once

This point heat theory that after sufficient irridation of practically similar cells of nea by equal sensitiveness the majority have been destroyed and many others severely damaged while others have not been influenced is proved by expenser. With proof longed over dosage the number of unaffected cells only only one of the property of the control of the property of the careful experiments have frequently shown this very supprising fact.

The author attempts to evplain the actio of a spot different hardness in the light of this point heat theory. A new explaination off red for the so-called stimulation effect of readiat on is based on the injury of a correspondingly small number of cells to which the bod; each to compensating of octrompensating to be compensating of the control of the compensation of the compensation

Seltz L. Do the Roentgen Rays Ha e a Local or General Action? (L k i d llg m n W rk g der Ro tge t hl?) St hi ther p 9 3

The influence of the gamma rais of raid um and the roentgen rays on malignant cells is evert 1 first by the action of the ray on the 1st themselves and second in the rith by many connective it sue cells and body fluis or through the glan is of internal secretion. Both influence will always be present but for the progress of cience it 1 of g cat importance to know which of the two predominations.

In every case treated a choice must be made be to ent wo forms of dosage for a definite variety of cells (1) the dose which stimulates function which so obtained with smaller quantities of the rays and (2) the dose which checks function which is obtained by larger quantities of the rays. This conception is based on isolated hiving cells of the animal body ova sprimations of et. The charges in the carcinoma sprimations of et. The charges in the carcinoma teat the direct influence of the roenigen rays is of the direct influence of the roenigen rays is of their importance in the distriction of the cells of

It is therefore necessary to determine the dose which causes direct mjury to the nucleus and the cell Experience shows that for carcinoma of the uterus this is from 90 to 110 per cent of the skin ervithema dose For other carcinomata the dose must be determined on the basis of experience but in the meantime the dose determined by Seitz and Wintz for carcinoma of the uterus may be used

GREIT (G)

Little C C and Bagg H J The Occurrence of T o Heritable Types of Abnormality Among the Descendants of \(\chi_{\text{Rayed}} \) Mice Am J R ig 1 923 x 975

The authors revie v the work done by other inves t gate s in an attempt to modify the germ plasm with the rountgen rays They themselves irradiated adult mic to determine the effects of such treat ment on their descendants. Mice vere chosen as the e perimental animal because their hereditary behavior is known and has been carefully recorded The history of the stock of mice used as well as that of the individual mou e i given The fact that no such abnormal ties as those observed appeared in the stock eithe before treatment with the roentgen rays or in the 2 000 control animals from the same stock constitutes strong evid nce that the roentgen rays were the agent that brought about the changes caus These abnormalities are ing the abnormalities described a detail and illustrated

The results of the experiments and the conclusions drawn from them are summarized as follows

r Abnormalities of the eyes and feet first ap peared among the second and third generation descendants of mice which as adults were given one fifth of a human erythema dose of roentgen rays on each of fice successive days

2 The first young were obtained from treated animals as late as ten weeks after the treatment Therefore the absence of intra uterine effects was assured

3 The eye abnormality is inherited as a mende

4 The foot abnormality is also inherited but as yet the exact nature of its inheritance has not been worked out

5 The fact of the appearance of these abnormal it es the clear lesions involve i in their somatice or prission their at sence from the control animals and the work of other investigators who have used the physical agents lead to the belief that the roent

INTERNATIONAL ABSTRACT OF SURGERY 466

gen ray treatment has a causative effect upon their production 6 This effect appears to be of the nature of a

direct effect on the germ cells themselves The experiment hare record dandicate the neces its for atreme caution in the u c of the radium

or roentgen ray in the tr atment of persons who may become parents after they have been treated. AD LEH HARTUNG M D

Il ckey P M and Warthin A S Roentgeno logical Pathological Conf rences J R d 1913 4 6

The jurpose of the art less to promote coopera to n but een the roenteenologi t and pathologi t The conclusions dra in by the rountgenology t confronted with the varied problems presented in a general diagnostic roente n ray laboratory are of great or little value depen ling upon whether or not they are base t upon prop r concepts of pathology

It the University of Michigan there is hell every Fri lay afternoon 1 ring the s hool year a pathologic conference in hich the clinicians and roentgenologi to give their clinical diagnoses the pathologi t gives the macroscopic and microscopic findi gs and the correlation between the clinial symptoms as hown b the method of phy ical examination and by the roentgen ray 1 reviewed and commented upon in the labt of autop v data. The adv neares of su haw eld confere ce are tirst that it stimu lates careful and prect e work a 1 se ond that it provides the of portunity to clarify the d t of com plex ca or to profit by my takes

The authors g e in letail the hi tories of ix ca es to illustrate the method and to emphasize the practical v l e of such cooperation between the clinics and the pathologi al laborators. In conclusen they state their belief that such correlati e studies of roentgen ray plates and autopsy d ta a e es, entral to the scientific ad a cement of roenti nofogical interpretation ADLER HARTENG M D

Warren S L. and Whipple G H. Roentgen Ray Intexication I Bacterial Invasion of the Blood Stream a Infl. enced by X R v Destru tion of the Nucosal Epith llum of the Small Intestine II Th Cumulati Effecto Sum mation of X Ray Exposures Gi n at Varsing Intervals III The Path I a Beam I Hard R ys in the L ing Organi m IV Intestinal Lesions and Acut Intosicution Produced by

R diati n in a lanety of Anim is J Exper

The experiments report d were carried out 11th fr m S to q L lo olts S ma a mm aluminum filter and a focal skin di tance of cm It r quired about 3 oma min to admini ter the aximum ublethal done to a d g b d ation ver the abdomen The Linersthema to was abo t coma m n

Such a dose fr d tion a normal d a all u uall cau e death on the fou th da The introduction resembled the clim at pritur ein n intest nal pistruct on it is crops; the pith hal o ening of the small intestine was found completely destroyed Ad antage was taken of this specific action upon the intestinal epithelium to study by terral invasion of the blood stream and some of the physiological prop-

ert es of the rays.

Although empty crypt and naked villi wire ex po ed to swarms of bact ria there was a striking I ch of invation of the blood lymph and tis ues, Durin the fourth div there was evi lence of in asion and do eminat on but not more then in severe intox ications vithout intestinal desquamation which lead to come and leath. The conclusion reached was that the intestinal epithelium i not the all important barry r protecting the tis ues from in asion by intestinal bacteria.

A maximum sublethal dose c u ed the same amount of mucosal destruction and clinical intails to a whether it was given a a single large do-e or in maller repeated do-es admini tered with n a ix day period. Fractional doses gi en at six-day or longer intervals showed no vid nce f summat a

but rather a suggestion of tolerance

By controll ug the portals of entry of these hard rays by means of impervious screen, it was found that the r vs causing the destruct on of the intetinal epithelium t a eled in straight lines th o gh the living to ue The character of a deep ulcer could be accurately predicted on the basi of a knowle the of th age and form of the bears of rays and the appear

n of th kind n Tan tinfom nector c to normal mucosa del not occupa more than or 3 mm The would end ate that reflection or refr et nis negliabl and that for therapeut: purposes second ry adi ti n beyond the direct pathway ma be

ın ed

Pra ti all the ame chinical and pathologi alp: ture as produced in other common labo ators animal. The rat and guin a pig were h htly more sensit e to the \rans than the dog at and rabb t Bird, f ge nd reptiles were m re resi tant tol rating t o o thee doses of radiation which was lethal f rd gs CHARLES H HE TOLK MD

Selm an H Investigation on the Effect of the Rays upon the Metabol sm of Calcium Chlorid and Its Relati n hip to the Treatment Ray Intorication (ltrs ho enubr d Fnff s d Roe tg n.trahl n auf d Koch salzet fiwerhsel dee F ehu g zu Theraj des Roe 1 katers / Si hi therap

453 The \ rays produce a disturbance in the m tabohem of salt in the organism in a much as an in reased elimination of salt and of urine occurs. In animal sperime to the sodium chloride content of the skin and the is diminished abruptle after irradiati n The intoxication from \ rays could be controlled in almost e rs ca e by the admin trati n of sod um chlori le

For the purpose the author uses 10 gm of pow lered sod um hl n t with menthol's ilen anate in celatin capsules. Three ap ules are giv n before and three immediately after the irradiation In severe cases of intoxication from the \ rays 10 c cm of a 10 per cent sterile solution of sodium chloride may be injected intravenously

The e experiments will probably result in added therapeutic effectiveness of the \ rays in di eases in which the elimination of sodium chloride is deficient TORLER (7)

Desiarding A U Protection Against Radiation Rad of gy 1023 1 2t

The potential danger from roentgen rays aries according to whether they are employed for diag no is (roentgenography and roentgenoscopy) or for treatment (roentgen therapy) This is due not to any es ential difference in the nature of the rays themselves but to differences in the conditions under

which they are used

When the roentgen rays are employed for diagno sis they must be relatively soft such as those gen erated at transformer voltages of from 40 000 to 60 000 volts The rays produced at such voltages are in large measure absorbed in the superficial tis sues an la relatively short exposure will produce irritation or more serious effects in the skin latitude of permissible exposure at a given voltage varies ith the amount of current (milliamperes) and with the distance between the tube focal spot and the skin

In roentgenoscopy the same range of voltage is used with a much smaller amount of cur ent (3 to 7 ma) The allowable range of exposure is therefore much greater than in roentgenography in which the current employed varies from 20 to 100 ma roentgenography the only posible danger to the patient aside from electrical shock 1 overexposure The e usually the result of making too many plates of the same p rt n a given period of time and seldom occurs when the examinations are made by experienced roentgenologists The preparation an l constant use of a m imal expo ure chart giving the number of plates which may be made at ne time under given conditions is a valuable precaution. In roentgenoscopy the roentgenolog t must tr in him self to keep the total e posure time within s fe limits taki g into consideration the e posure time necessary in case serial roentgenograms a e to be made of the same region

In roentgenotherapy radiod rmatitis is not so commonly accidental In the resistant types of mal gnancy it is often necessary to give the maximal do e permi sible and since the skin va 1 s om what in sensitiveness there is more o less marked reaction in certain cases It is 1 e to explain the to the Pitient before treatment The us of Do 11 s lotion

will often prevent rad odermatitis

Severe radio lermat to involve g the e t re cuta neous layer and occ sionally the beutane us layer is usually the result of gros r in t chnique Close sup rvis n of all details of the treatment hould entirely present the occurren of ch nfortunate sequela

The state of the blood in a given case should be known by the radiologist and should be given due cons deration in the decision as to the detail of treatment The systemic reaction which commonly follows treatment with the more penetrating roent gen rays may sometimes assume serious proportions Clinical ju igment based on experience and careful observation of the patient must determine the intensity of treatment permissible in the individual case

The danger to the roentgenographer in exposure to the \ rays lies in the possible effect on the cellular elements of the blood and the genital glands. In roentgenoscopy repeated exposure to small doses may cause cutaneous lesions Because of the danger an apron of tested lead rubber and long lead rubber gloves should be worn To diminish the exposure of the skin of the face the fluorescent screen itself should be covered by lead gla s Blood changes often attributed to \ ray may be due to the poor ventila tion so common in rooms used for ra holory or to the confined sedentary life lel by many radiologists In roentgenotherapy especially since the advent of so called high voltage \ ray treatment the question of protection has been in rather sharp focus. Little a definitely known a to s hat constitutes adequate protection In this connection the author reports a ser es of experiments conducted in his laboratory to determine the thickness of lua I protection necessary at various voltages as well as under certain con ditions of scattered radiation The results indicate that lead & in thick forming a side booth affords a high degree of protection against rays of 135 kg Ventilation of rooms used for roentgen (peak) therapy is of the utmost importance for the patient as well as the personnel of the treatment room There is no question that the gases given off by the general ing apparatus and through corona along the con ductors have some bearing on the incidence and s verity of radiation sickness

In the use of rad um the potential and actual dan ger is greater because of the greater penetration of a portion of its rays and because the form in v hich it is available brings it into closer relationship to the persons concerned in its alministration cutaneous changes begin usually in the fingers with gradual loss of sensory acuity followed by drying and cracking of the skin and nails Sterility and blood changes may be later results The persons gi ing the treatment should be thoroughly instructed with regard to the possible dangers. All capsules containing r dium should be manipulated with long forceps and all proce tures studied to provide max imum protection The cultivation of an outdoor hobby is of pecial importance to persons expose I to F A FORD M D

P is Leusden Roentgen Ray Ulcers Especially Th ir Surgical Treatment (L be Roentg ng s hwu e b so 1 s th e h ru g sche B h ndl g)
If d hl 19 3 t 8t

The author reports a series of cases of severe \ ray burns an I late injuries and suggests that there may 468 be a certain hypersensitiveness to the roentgen ray

as there is to other types of rays The ulcer should be excised by an incision made around it in healthy tissue and the area then cov ered with a flap. In the stage of granulation the defect should be covered according to the Thiersch technique So-called \ ray indurations which may ulcerate should be excised before they break

down Emphasis is placed upon the fact that those who use the roentgen rays should have thorough training and should be sure that irrad at on is indicated. Old recognized procedures should be abandoned only when roentgen therapy will certainly give better results or the patient demands \ ray treatment GRASHEY (Z)

Bumm Roentgen Care noma in the Female U be Roentg nom b der Ira) Zi h f G b 1 h u Gyna k 1923 les vi 445

Among 100 cases of cancroid developing on the basis of a roentgen ray dermatitis which were collected by Lazarus there were only four in which the condition followed therapeutic e posure to the

TAYS Rumm reports the ca cofa61 year old woman; ho after having been treated for prur tis vulvæ over a period of eight years by the usual methods was given roentgen treatments lasting from ten to twelve minutes every two or three weeks for a year and three months and on four occasions radium treat ment Two years later a roentgen burn was d scov er 1 One year later she vas admitted to Bumm s

clime The region urroun ling the external genitalia had he n tra sformed into a red ulcerating surface with areas of necross In the right groin was an ulce the size of a sil er dollar which microscopic exam mation showed to be a diffuse scirrhous squamou cell epithelioma The diseased skin area and the right inguinal glands were excised. During the following nine months there were two recurrences These ere ere ed Three months after the last operation an inoperable recurrence de eloped in the

left inguinal glands The corclusions drawn from this case are that great caution 1 ne es ary in the application of th rounte n rays to the external genetalia and that if burning of the skin occurs excis on of the injured part must not be delayed too long After from th ee to six months as s on as the roentgen necrosi is well demarcated from the deep structures the in jured skin m y be e cised vithout dang r of the formation of further areas of necros s The ex cision must be carried well into healthy t ssue The defect may be covered with skin f om adjacent

parts A question till to be answ red is whether expo sure of the mucous membranes of the gen take to the roentgen rays may ct up a condition of chronic irritation favoring cancerous degeneration pel has reported one case which appears to answer this question in the affirmative and the author reports six others. The author's patients were women betw en 48 and 57 years of age who re ceived roentgen treatment for myoma or hamor rhage at the menopause. One to lour years later car cinoma of the uterus appeared. There are three possibilities to expla n this sequence (1) chance coincidence of myoma a d carcinoma (2) unrecog nized carcinoma of the body of the uterus present in an early stage before exposure to the rays (1) the establ shment of a ch onic irritation in the mucous membrane and musculature by the roentgen treat ment The marked infiltration of cells which was observed in almost all of the cases suggests the last

mentioned as the most probable cause The author has learned also of a case n which a sarcoma of the evary developed following roentgen

treatment In the discus ion of this paper Mackenhopt reported to a milar cases of patients who were ex posed to the roentgen rays for myoma and between nine months and one year later retur ed with car c noma He holds the treatment respons ble for the mal gnant degeneration

BROESE reported a case in which a myoma retrogres ed following radium and roentgen treatment but the patient d cd two years later of carcinoma of

the right overv STRASSMANN pointed out that it is not infrequent for a carcinoma to develop on the basis of an old prunt; that about 20 per cent of uterine my omata contain the anlage of sarcoma that even operati n for myoma does not ensure against ca cinoma and

that the nesdence of carcinoma of the stump fol lowing amputation is as h gh as 5 per cent MEYER c lied attention to the fact that in the case eported by Bumm arcinoma de eloped only in the region of the typical roentgen ulcer particu larly on the margin the est of the vulva and the

surrounding tructures remaining free BRUENNER (G)

Frick R E Possib lities of Deep \ Ray Therapy The &G 19 4 3

The \r vs f short ave le gth have a marked lethal ffect on malignant c lls and c use a prolifer tion of connect ve tissue. This eff ct is partially ffset by at ophy of the skin a d hone necrosis of mus le and destructi n of lung subst nce consequent upon repeated r diations

The autho compares radium to a fle of small bo e used with a high explosive this c usi g gre t p netration The vrav he comp es to the less potent shotgun which riddles the target and spends itself in supe ficial destructi n

Lok of cou ate or practical in tum nts to measure dos ge and va lat ons in the output of the apparatus ar ther f ctors I miting d'ep \ ray th rapy However when Ia ge amounts of radium re not available or larg ar as ar to be treated it offers great p omise of ben fit

CHARLES H HEAC OR M D

RADIUM

Simpson F E Recent Developments in Radium Therapy Ill os M J 923 h 327

One of the most important recent developments in radium therapy consists in the u e of radium emanation instead of the radium itself emanation is a gas extracted from radium solu When the 1 confined in a tube it can be used in the same way as radium due allowance being made for its decay

The chief advantages of emanation over radium are summarized as follows

The danger of losing the radium is obviated 2 A very large dose may be concentrated in a very small space

3 Minute glass spicules containing the emana tion may be buried in the ti sue

The advantages of the tiny glass spicules or am poules have proved so great that the treatment of certain tumors has been revolutionized. Traumati m. 1 minimized the soft beta rays rendered a ailable are effective in the cancer tissue and the dosage is exact

The two principal methods of radium therapy are the burying of emanation and the use of very lar e quantities of radium at a distance from the tumor the so called d stance method The experiment made by Bagg demonstrated that when the intra tumoral method is employed from to mc of emanation in each ampoule is sufficient. The best results from distance radiation require at least 1 000 mgm of radium or 1 000 mc of emanation

Too small quantities of radium nsufficient equip ment and incorrect technique are responsible for some of the present unpopularity of radium therapy It has been difficult to convince physicians that large deep tumors may be destroyed vith rad um but it i easy to demonstrate the if the quantity of radium is sufficient and the d stance from the radium to the tumor 1 increased. When these two and tons ob tain any portion of the body may be irradiated with sufficient dosage to destroy tumor t saue. The author believes that the use of ooo mc or more in selected cases of carcinoma of the ervi is attended ith far better results than the use of 50 or 100 mc for a longer time. As rad um rays a e app ox mately four times as penetrating as the hardest \ rays mo e intense deep effects can be obta ed ith radium than with the \ ray Te ts of penetrability metal have shown that radium rays are al o thirty times as penetrating as the \ 13

Becau e of the injuri us effect of radium rays on the blood as a whole a speci l ppar tus has been designed in which the rad um s sur ounded with a metal sc een so that the radiation is given in only the a ea desired Th s apparatus is suspe ded abo e the bed and adjusted

In concl sion S moson states that rad um seems to be encroaching upon the surgeon s field Recently Q ick advanced the op n on that in the treatment of primary lesions of intra oral carci oma radium is preferable to surgery

Simpson especially emphasizes the importance of having large amounts of radium available and using ampoules of emanation. He concludes that when no ible ampoules should be inserted into the tu mor and that when this is impossible large amounts shoul I be used at a distance

A JAMES LARKIN M D

Mottram J C and Cramer W On the General Effects of Exposure to Radium on Metabolism and Tumor Growth in the Rat and the Special Effects on the Testis and Pituitary Q at J

L per Physiol 1023 XII 200

When young male rats are subjected to small doses of radium over long periods of time they rapidly become very obese and the testes show intense atrophy of the seminiferous tubules with hyper trophy of the interstitual cells The pituitary gland shows changes in all three parts. Analysis of these phenomena led to the follo ing conclusions

The p imary effect is the atrophy of the tubules The shrinkage allows the interstitual cells to hyper trophy A comparison with the effect of castration sho s that the elimination of the functional activity of the seminal epithelium does not lead to obesity but only to certain changes in the anterior portion of the pituitary gland The obes ty is the direct or indirect result of the hypertrophy of the inter stitial cells which leads also to changes in the intermediate and posterior port ons of the pituitary gland

The spermatogenic and the interstitial tissue of the testes have to distinct and independent effects on the organism Those of the interstitial tissue are the most profound. Even in the absence of the spermatogen c tissue the interstitual furnishes an internal secretion which causes definite changes in the intermediate and nervous portions of the pitui tary gland and through this gland and pos ibly also some other endocrine glands affects the metabolism These effects on endocrine organs and metabolism represent probably the actual basis of the general changes stated by Stemach to occur after the im plantation of testicular substance tissue and when induced in a senile organism are described vaguely as rejuvenescence

The author discusses the interrelationship of obesity and sterility and the pathogenesis of dis

trophia adiposogenitalis Resection of the vasa deferentia causes no very

obvious changes in the testes or pituitary gland and not followed by obesity Rats which have been rendered obese by exposure

to rad um are more resistant to the growth of trans planted tumors A JAMES LARKIN M D

MISCELLANEOUS

Granger F B Physiotlerapy M d Cl NAm923 I Io

In the Boston City Hospital the conditions treated by physiotherapy include peripheral facial paralysis

stiff and painful shoulder lelayed or non union of bone and hypertrophic arthritis

Peripheral fac al paralysis may occur after refriger ation (probably as a result of infection) or may follow operation (for masto ditis) or trauma (skull fracture) The treatment depends upon the character of the pain and the degree of degeneration When there is much pain positive galvanism is used for its selative effect but if the p in 1 shight the negative pole is u ed for stimulation. The type of stimulation depend on the degree and the duration of the degeneration. During the first ten days interrupted galvan sm is used the positive pole when there 1 omplete reaction of degeneration and the negative pole hen there is incomplete reaction of degeneration Rad ant heat or diathermy and re e lucational exercises ar also employed. In the use of the galvanic current care is taken to prevent tiring the muscles

Stiff and pai ful shoulder i cludes bursitis arthritis muscle tire or stretch and adhesions

An \ \text{rax} examination is made to determ in the cause. The treatment aims at reducing spain absorbing c learcous depo its such as those occur ring in burstis substituting an active for a passive hypercrima and stretching adhesions. Heat is used in the for most find aim heat or dathermy tonization has been shown by experience to adhesions. Miss ular relaxation and stretchin up datesions. Miss ular relaxation and stretchin up the strength of the strength

In hypertr pluc arthritis fairly permanent relief from pain and stiffne may be expected even though the X-ray find ngs remain unchanged Medical d athermy and ionization of sodium salicylate of sodium chlor de and of water charged with radium emparation are used.

which proper fixation was secured

The author gives in detail the technique for each of the methods of treatment ment; ned

of treatment menti ned LEWIS MD

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Knox R Some Aspects of the Cancer Problem Am J Ro 1g 1 1924 1 1

Although penetrating radiations which will reach practically any depth of itssue are possible and the so called lethal dose for cancer sarroma tuber clea and most of the normal its use has been deter mined the constant and certain cure of cancer by radiotherapy is not an established fact. The effect is controlled not only by the particular type of the tumer but all oby its condition or stage of prograt at the time; it receives the radiations by the surround ing it sues and by the patient's general condition ing it sues and by the patient's general condition

Biological response must become one of the factors of dosage and will always be the determining factor To determine the nature of that response closs observation and systematic examination of large numbers of patients who have received measured does are necessary. Carrelia math sas of all the factors are not to the cases should lead to a correct estimate the properties of the correct estimate a cure in cases should be for radiotherant or assess statished for radiotherant cases.

Biological processes set going by radiations appear to continue after the cessation of treatment and if such radiations are repeated at proper intervals the action may be carried on over a long period of time with relatively satisfactory results. The effect

in these cases is due undoubtedly to a summation of dosage one or more lethal doses being administered in the course of several days or yeeks

The active agent in the production of therapeutic effects is the rad atom absorbe 1b the ti sues. The question of wavelength; of importance in this connection because upon it in large measure depends the number of ravs reaching tissues at different depths below the surface. The most suitable are length for general uses is that which absorbed in the tissues undergoing treatment.

The question of the du t nof the exposure: also of importance A method of treatment v hich may so severely damage the no mal tissues that further treatment cannot be given for si or eight neeks is unscientific and i part cula ly undesirable if the desired effects can be obtained by any other means

The author attempted to obta a continuous action by giving frequent small doses dails ever yo other day or at longer intervals according to the effect observed. A large number of patients: ere treated be this technique and some of them received a dose of tearly to thirty or even fort how a posure pread over several weeks o months. The results in a number of cases ere eve senouraging Patients with blood disease as limphind noma sarrom an accitional week retaited in the way. In a number of accitonious were treated in the way. In a number of

cases it was po sible to obtain with much less risk a curative effect equal to or better than that claimed for the lethal dose at one sitting

ADOLPH HARTUNG M D

kotzareff A and Weyl L. The Selective First tion of Rad um Cadiodal Sub tances upon more and the selection of the selection o

It is well known that certain substances when introduced into the blood stream become fixed to certain cells. In this articit the authors report the results of a study of the selective action or fixation upon embry once and cancer cells of colloidal solutions to t high radium emanation has been attached

The amount use I vas from I to 10 c cm of solution to which about o mc of emanation had been

fi ed

To demonstrate the fixation of embryonic cells a pregnant gunca pig was used. The solution v as injected intravenously. Photo, rapher plates were made at once and again a few hours later. In the former the cavities of the heart were seen and in the latter an etact outline of the fetuses.

To demonstrate the fusion of cancer cells an intravenous injection of to come of the solution charged with about 25 mc was given a patient self-ening with cancer \(^1\) photograph mide immediately aboved the passage of the solution through the ven pro mail to the point of injection Later a plate more considered to the control of the time of

The curregraph is of especial value in the d agnosis and local zation of metastases which have caused no anatomical or functional disturbinces. After operation for cancer it may be used to prove whether

or not the tumor has been entirely extirpated.

The authors cite numerous examples of selective fixation in chemical physical physicothemical and biological fields such as the fixation of nuclear substances the absorption of gas by charcoal the affinity of tetanus toxin for the central nervous system.

The theories of electron and ionic activity are discussed and mention is made of the fact that the Y-ra's and radium acting on a colloi lal suspension of a metal especially aluminum cause a flocculation of the metallic particles.

It is suggested that following the application of radium emanation to a cancerous growth the positive charge of the albumin is saturated by the neg ative beta rays and the negative charge of the globulu by the positive N rays. Subsequent electrolysis causes very little change in the serum. This process is repeated as the blood passes through the cancerous growth until sufficient emination has been absorbed to make a causegraph possible. With the aid of an electroscope the presence of emanation may be demonstrated in the tumor area.

I M HAY M D

GENERAL BACTERIAL MYCOTIC AND PROTOZOAN INFECTIONS

Levinson S A An Intrarenous Method for the Early Diagn of Tuberculosis in the Guinea Pig III M J 1923 lv 36

The usual method of animal moculation employed in the diagnosis of tuberculous requires from foot to six necks for the production of gross les ons. By mirrowenous injections of posture upstain the author was able to demonstrate lesions in from ten to foorteen day. I noculti ons of rectly into the liver or aplean produced results less rapidly and intra-participated injections or required a still greater including for the formation of tuberculous lesions. The importance of the produced consisted in the injection into the jugillar or mesenteric venn of a guinea pig of from 1 to 2 cm of a supensision in normal salt solution of the centrifu steel of a pecun of sputtum treated according to the method described by Petrofi

WALTER H N DLER M D

MEDICAL JURISPRUDENCE

Liability for \ Ray Dermatitis Rol: Rb# 19 N B p 38

In July 1920 Rost was afflicted with pustular acne a use se of the sebaceous glands. He applied for treatment to Dr. Roberts and was given X₁₉ treatments on July 2 5 9 and It Ina week anares of about 144 50 in on his lack became red and treatment Act who start this area turned but and then became black. The skin cracked and ben no peel and pus was formed. The skin appeared to be supersensitive and prepularly susceptible to the X₁ x₁ x₂ the skown that the treatment was the usual and ordinary treatment for the disease. Rost swed Dr. Roberts for damase.

The doctor claimed \$560 co for professional services for this and other treatment. The case was tried before a jury who found in favor of the doctor and awarded him the \$560 co. The Supreme Court of Wisconsin sustained the verdict.

HILLIAM E MOOVEY

Drainage Tube Left in the Abdomen Clesky :
Drain 137 N E R p p 3 1

The plaintiff was oper ted upon for appendiciti on July 20 by Dr Charles Durant On August 4 symptoms of sepsis having appeared the doctor inserte f in the i ound for draina e a piece of rubber tubing about in long and 18 in in diameter Until lugust 14 he d es ed the wound and inserted a new tube each day On August 15 he went on a vac ton leaving the patient in the care of Dr Laskey who dressed the wound first on August 6 and continued as the phy ician in charge until September 6 when the wound appeared to be clex and healed The following September the patient s health began to decline and the site of the wound became tender 1 nurse who was called pulled from the wound which had opened a tube about 2 7 m length which was covered with blood A ve dict against the Dr Durant I r \$1 500 vas sus

tained by the Supreme Court of Massachusetts
Will I M E Moover

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE-THE BOLD FACE FIGURES IN BRACKETS AT THE I IGHT OF A REFERENCE I DICATE THE PAGE OF THIS IS UP ON WHICH AN ABSTRACT OF THE ABSTRUE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NICK

Heall

Injunes dd ease f the boy skill I ding the m dibl a d sinuse H HABERER L p g Theme 023 fall the flud pa s ft r fractu e of the Air d stent b se of the sk ll II SCHLOFFER Ar h f kl n Chi 10 3 CXX 11 72 The tre tment fsk ! fra tures by de rea ed t so f

ebro pinal fl d R LERICHE Ka eg a 1 t ded et p 1924

I ternal gu hot (ko t sch s) ds fth kll
kC N725Cr D tsche Zi ch f Ch 9 3 L 5 C NIZSCI D tsche Zt ch f Ch 93 L 5 Thop rat n fcatler pl ty 1 k Minroe Crad n M As J 1924 47

De I pm tal d f cts of the kull ac o ph ly (o v ceph ly) and enceph ly H L Dwyer Mel Ch lm 1024 1 I m 1924 : 1 3 Hype o t sis of the skull I Naito 2 d A Schleilfr

Win klin Weln hr 923 792 Typh fe partts I 4 Herzen 1 ch f kl h 1923 c , r Tube culs softh parot del d A Brat B t Ch 19 3 cxxx 1 8 Oldoclso them dble by tmp m dblony filo Mi Fas wo 1 tld ch 93 bony fil o

A ca fdff e hype t phe states t the lebet of the sup r mail Soucher d SLRRFE Achitem t d'laryng l 0 4 3 A se f bma llary l th s l B Lot P m d arge t 93 xx 1 954

Ophth lmol gy during 9 3 D Ros M d T mes The dees fthees dees fihees It tg BCt miv im JCin VI 04 litme Pef rm d t as thrp tem
prat CHBELJMISCNINS phtl lm c 6 Fits bealized nth v fb t fm f ted t th R I H prv \ch I t \ I d g 3 8 S (373) At ! phth nc Serum i O 1 If t B W Kry JAM M Ns 041 83 Amily pid t lue i l h l Abrocus Sem na 1 03 3 13931 d n cot e (393) Mod m pt cal method 1 th e
H Berner Brit M J 9 4 8 Worl m pt cal method 1 the TH Better Bitt M J Q 4 S M sel e se nf st b m T H Bette Ry Se M d Lo d 924 Set Oplith 6 3e (393) Poc [391] There is the first tract in the first f bd t with f th ect s, 7

I olated favus of the evel 1 S S GREENBAUM Am I Ophth 9 4 3 8 11 6

Cy tad ma f the bo der of the eyeld R R Git. and P SATANOWSKY Re Asoc med tg t 1023 TT 1 80 It t t onjunct væ I Boeckmann Mi nesota

Med 0 4 be e e æd matou conju ctiv t from po dered o ris

t D Poy J \m M As 924 l
Pers tent vell ng of the conjunct
H w Poc Roy Soc Mel Lond I I CENT o Q 4 X H Sect Opl th 1 ĩ I c ! cts tis W C Posey Atl tic M I

Cn) ct ll at \avLint Bruxell s méd 1024

Try teatment of intersitil keratit TL De Coursea dJH Mature B t MJ 924 r [394] Ynl f g te co der tin; the mi ag ment f bod th cornea F M Sha alin I tern t I Med & Sug 94 x vn 4 J Med & Sug 9 4 x va 4
Alpa at to magn tpr ts for et ction of forign
bodes B Cnx cx 'um J Ophth 9 4 3 x x 1 44
B f d a phs an i cet th phot g phy
f mall gm t theese T H Hertira Pro Roy
So M d Lond 9 4 i Sect Ophth 6
1 Acut 1 o 8 fthe mea E Nusoquet dE J
Acut 1 o 8 fthe mea E Nusoquet dE J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoquet de J
Acut 1 o 8 fthe mea E Nusoqu

783

Acse of tamte ten e ou les on f the bt B HARMAN I roc R y Soc Med Lon 1 1924 x n Sect Onhth Symm trical lymph ma f both o b ts a d tr atm t

by the Xry I lisco MA Re Asoc mel gent 93 1188 A new atgm to ch t J S PRIEDFYWALD Am J

Ophth 924 3 1 8 Forther t mi l invergat s on subc nju et al hem t m f th t n poral po tion f the eyel all f ll w g fractur f the base of the kull H K HL Arch f path \ t u Phys l 1923 cc l 1 104
Lat inf ct n aft t cph g R H Fillior \ m J Report of a c se iep b lba m l n t c sa coma M H WHIT G P oc. R y Soc Med Lond 924 1 Sect

Ophth 3 Uu l de el pment of tis s f the n J Fejér Im J Ophth 9 4 35 u 43
Aca finiscl ryt be culos at ndingt ther ti a
dopt en rie II Lagra er Bull et mêm Soc a at

19 3 x 1 655

H editary cataract A L Baony Am I Oohth. 924 3 VI 36 My xperien e with B rraquir's peration C E Fin Ds on the chical senitors of scotometry A H H Sinclair C Holms M Herbur N B HARMAN & d Others But M J 1931 158 1394
The etal gy fetnt problems B J LARKIN J
I d a Stat M Ass 0 4 xr 1 13 13941 Rintip hiern eport faca L J LENT M B EWER J Indan State M 18 1924 x 11 16 L J LENT a d Lowma ret nal eff ct of in ulin W F HARDY Im I Ophth. 10 4 3 8 u 30
Abn rmalities fith isual fills S D Inguam and T C Lyster J Am. M Ass 1924 Issen 17 Opt c n unit ndary to s n s d case wit ndary to s n s d case with repo t of ac se I B High Laryng pe 924 v iv 17 R tr b for ne r tis assen ted with d sease f the nasal a c ssory inu es E L FALK N 1 k M J & Med R c 1923 1 1 624 Retrol lb r optic n u itis and the post ri r si uses G CANUTT & d J TERRACOL Arch d med cirug y e pe tal 0 4 xiv 97

Acute ret b lb r ptic neuritis in the post ri r inuses J Javera R v Aso méd a gent 1923 xxx 1 866

Ea Ad a ce 1 of l ryngol gy d ring 923 H HAYS A Patters a 1D Atsriv Med Time 0 4 1 0
The ea ing ald ign sis H I Little Manesota Md 13 4 1 15 ew method f rec tructi fth ea callg C Ho sa a d & Lemies Zt chr f H l Na e Ohre h lk 10 3 T 408 Ot t ch le test mata S MACC SMITH In Otal Rhn I & Lary g 1 1923 xxv 2 3 1395 Chons awal dechinge J G L Llison Laryng 1395 (395) sc pe 19 4 3331 5 The rote et time t soute tor hoes with especial frence to bulde n O W LEE I so a St t M foc Acut supp rative tit media in Ints C C Jo E J Iow St t M Soc 9 3 xm 500 An w method of t atment it hoon ot tis media M P Boest GE N Ol n M & S J 20 4 1 7 3 7 MUC 5 this I' O KETTLERAMP Laty oscope Aplaf anut mat on I n est gat a nto to cf is nd all ed f rm of deafnes J S PR SER Laryngo c pe 10 1 xx111 80 The Yay san distribute then I may red hear g J J Richard o I tent J Med & Srg 0 3 xt 5 0 3 xt 5 1 396 1 3 xt 5 Y ray n the est ration f the heart J J RI HARD

Ned Trees 94 1 15
A sund to perate on the ear the tons! and the A gind to perat on the ear the tons! and the n se Ed 2 A Passo and H Clat's Lep g B th 9 3 tem t dit L NEISO South M & S 9 4 E vzzzí tout surgical m tidt with a 6 me of fifty

operat d upon at the Cle of City Hospital 5 B Cower On St t dis 1 and di gnoss the pect 1 fere et th unt spectal a fithe ry p i res H H II & Larpu pe 0 3 xxx 0 4 [397] Masto d pen stetus second rv to acute middl ear dise s fehild en P Califerti A ch int rn t d laryngol
1924 xxx 21
The w th of She rington in the physiol gy f posture

The w the of She rington in the physiol gy i posture F M R Walshe J Laryng 1 & Ot 1 9 3 xxx in 64 1397

Nose

The gan I m II J Watcht Laryngo cope 10 4 km 1 r. Ac e Ido ble ose F F Wirekk and H S Souther Ac e Ido ble ose I F Wirekk and H S Souther Proc R y Soc M d L of 044 x u Sect Laryng I 8 A case I fin ophyma a d uis eu e J I E Sitera w Med J & Rec 10 4 cut 04 Au exped t to c tool p tau J G Lexike J Au exped

Am M Ass 924 lexit to The import e of eally te time t fiche e nead cata it it from cinfi mm t n fith nos prope J K Gurnt re J Iowa St t M Soc 194 x 1 3 A cae of o e a cured by ultr viltris Geer

t case of o e a cured by ultr vill fris Gree t chint tid lryngol 1924 xxx 65 My mithod of rgilt eatment forena Bourak. Arhitem tidelaryngol 194 xxx 7

Intranasal ca cin m in as c f with na al polyp

A J WAGERS Laryngoscope 19 4 x xiv 1

A unexp of the h y f er que to —a nical renew of
the situ t n el t et the et logy a dir sim t 0 J

STEPY Ann Ot | Bull A strong | ax xiv

STFIN Ann Oll Rhull & Taryngl 035 sai 124 Asthm ad nict slib cescory manal spuring Study basel 0 styr to c C A Hearty and S J Cho're B ii J h Hopkin II p B It 1933 szw 101 11 f red pain J masal s us du as J A Unis J Layngl & Ottl 10 4 x M. 15

Prysmate ogn requirement interaction to pagnasal use in hid en C G Coarger South M I 194 x 1 38

The rel to f par neal u deaset p lm 19 feto V W I Scibich C i at J M 1933 1 100

48
Report is scofp a ts with district Wirmore E Coin at J W 0.4 i 570
Th diagno direction to fich o dessessofthe nasal sunse S ROERTS J W soun St te W 488
1924 xx 2

Seget n t the ettley addresse t fassl cres ry n se J \ Sric Y C n t J M 1924 546 Sgat epes re th t tment fth d s Ith

State opes me that the ment of the design of the search of

M Gt B N J La yng I & Ot | 0 4 1 1 4
M coc | f th frot | W J HARRISO .
Laryng I & Ot | 0 4 1 0 0 1
A t m p th | g | ist dy | f n soph ryng al fibrom
J R P ERR Prese med I 0 4 vxx 32
O b t I fistula thm d mucce ! n d pbe od 1 n

ti perat d nd red by the nasal ut Th aspo R Assoc méd ag t 93 xxx 868 Ethm d tis W I Mo R Laryng c pe 94 x xi

Un 1 trum and thm id V W Fisci Acu

Un I trum and thm id V W C wn ts J M 9 4 567

GREIP

A case of maillary siut H ZUBLEARRETA I ev voc m d arg t 923 vxx 833 Rad cal operat n on the millary siu and d m ag to the te th R H Ivy A n Ot! Rhill to the contract of the contract of the case of the contract of the cont La vng l torr x 1 07

Mouth

Changes in the n s l a d oral cav ty a a es lt of orthodontic tr atme t M Dewey I t m t I O thodont O al Sug nd Rad g aphy 1924 3 Systemic diseases with teeth a the prim ry ause C P KELLEIER N Olea s W & S J 9 4 L 1 338
Fbro coma with myel pl f the al lrb dr J RAYMOND nd J BOUNEL B II et mem S c anat d Pr 193 c 708

Met it cepulis M WEIGHERT Zentralbl f Chi 1923 1 356 St mat rhino-c j net it de to f so pill i CARN T and BLAMOUTIER Arch internat de laryngol Q 4 XXX r

Absc s of the t gue L Samesco Re Asoc med argent to 1 xxxv1 870

Throat

Strpt co ic th t ca ep rt A D McCannel J Lan et 1924 xl 8 Ld gs graandga gangrene LHEUREUX B il t mém So t de chir 924 l 2 f the ph yny d f the pill rs t tel Tuberculo by ultr olet ray 5 Soulakova Ar h 1 t mat de I brosa com of the soft p late t td by ad m

FB (LLH SPY P c R y Soc M d Lo d 9 4

Sect Laryng !
Sa ma f the phuryn cured by \ ay Arch int mat d l y g l 10 4 x 66

The intre milp pg t f pharyng l t m rs The intronil ppgt f pharyng ltmrs Coll r nd Rebattu Arh nternat dlryng l 193 13991 The blgclt eatmetfrmafth ppe e pi ratory p g C DERA 1 ch t m t de la y g l 1923 11x 995 A t acc n t 13991 the t e t

At accent lum 1th X v the te me tof mal, ant t m s f th pp r p t s t GAVELLO Arhitemat d laryng 1 9 3 w 906 [399] frt pharyng al I poma Six R Words

A cas frt pharyng ar i posson.
But M J 19 4 44
I ractel pot in the magm t f
esophag ald et l f P Vrisov C l f phary g At dy fth t phryng labs J 1 В вытт Laryngoscope q 4 x 37

Acut pt phryglygt SCDBENK tuky MJ 94 7 m fth pgltt H VAIL CL The f mat f bo 57 tignthpit 9.4

d T AM STAND GE Spenm t 1 923 In complet g hro tasilti W H RBERT

Laryng sc pe 924 v. Thid time tith til I H CETTIR Ah Γ du t 9415 m It tmnt fh

The density of the state of the It tt

1 method of p nt ng the remo al of tonsils d ade mods d its usef | s in treat ig n e and thro t de fects A F weeks J M d Soc N Jers y 924 x 125 Indication f r and contra ind cations t t ll ct my and its S MacC Suttra Therap Gaz 1924 3 8 vil

Br ncho c n c ob ervations on the c ugh reflex in ton s Il ct my under gene al anæsthesia M C Myersov Lary g cope 19 4 xx 63 b ctern logy of t rpated tonsils T VAKAMURA

nn S g 9 4 Ivix 24
Rec 17 e f tonsill g owth aft r its removal G Brianci Ni Plin Rome 194 xi se prt 5

Neck

Tube c 1 gl nds of the neck F V Hussey Rhode Ilad M J 924 n

Lymph g t abscess of the neck P CLAIRMONT Sh 12 m d W hn chr 19 3 l 11 441 [400 To e body in the larynx the ab ence of cough r fl

G T Ross Laryngoscope 1924 xxxiv 42 Postd phth nt c laryng al stenos s So th VI J 924 TV th M J 924 tv 36
A cr t chondritis of the cricoid cartilage a if the first

t che I ri g due to acute suppurative thyr d tis S LESSANA 1 ch it I dichi 1023 111 522

Mycedem of th I yax E M Josephson J 1m
M As 19 4 lxx 08

The p t c r ct n f the bilateral m d n po f th s cal cord A RÉTHI Ztschr f Laryng !

l 023 XI 28 Subd 1 10 s of tube culous lary gt its tr tment by trache fst! t n G Rosenthal 1 ch i t mat de

l ryng 1 9 4 39 [401 Fb | pom fth 1 yn J F O Malley Pr c Roy Soc Med Lond 924 S ct Laryng 1 10 A ca e f tt si e intrin c ca cinoma f the larynt in

5 gfmlpt tteated by mpletel yn ect my Sir J Dunas Grant Poc Ry Soc Med Lond 9 4 Set Lyng | 5 Les free case of the sic a e of the larynt Ser Ser d D Warson I c Ry Soc VI d

Lod 1924 x 11 Set La yng 1 1 Laryng 1p ch ndrit de tor tgen ray tre tme t z ir Arch t m t de laryngol 0 4 z 67 [401] GR IF Arch Rm 1 nl ryng et my a dthe appa atu fo phona ti n n th 1 y ge tomiz d J Leyro Diaz Semana

méd 0 4 1110 7 Fith r bervat nth mch sm f spe chad f th ice I ryng ct mized pat nts II SERV Zt chr f II I Na u Oh enh lk 0 1 7 26 It in fee 1 syng et mizeu pat nts 11 S ERV Zt chr f H 1 Na u Oh enh lk 9 3 1 56 H t plast t n pl tat of p rathy id in P kin so a d sease B B ITNER D ut l Ztschr f Chr

9 3 cl 111 37 The thyr dapp rat in m n C S William sov Th import fou kno ledg of thyr d phy

in the c t I fthy dd ease D Marine A ch Int logy Md 1923 x 81 Iract cal applicat f basal: Bullowa Md Pe 194 n.s [401] f basal m tabol m JO 2 Experim tal n estigat n o the el ti h p of the rsical ympath tet th thyr igla d W REINHARD

Deutsch Ztschr f Chr 1923 1 xx 17 [402 Th eff ct f 10d n on th thyr d B BREITAER If the crisis of the layer and the crisis of the critical criti

Hererthereit ma wei ted with acring K. H. Mat a Med CT & Im ora 1 1005 kee teen is t tm t of by thyr !! I T Micha Six 3 a M M th oad 1 co th ift au istell with? he s Intlifet m. I T fans Med Clin & ter 1914 ~ 1 If the tract liquet the fit it to relative his his hack as a new 31 mer. The a lime 31 mer. 1103 10 4 1 101 A b I filter with ase to be with the time to method is the etties f W Hier v. Med 1 & Rec 114 6 1 8 Med J & Rec 17 4 c 1 Ind i alf teals sur in et l dren in 1 . I to to 1 . to 1 er 1 h 1 11 Chir o e e s sot 40 0 kent ft the frat I S Sent & C ferria tate J M 1 a K 2
At rial 1 to 121 Ind custs W I Treas n1 (\ lngam ar \ h \ 1 to a \) 165 I at and immate I the thirteel I L De en this such at the C = 7 \ In rang orgins, 25

Misobo I I frame in the there fight F M

Nilota X | Fag. M t. 19 x l. ex

Symptematize | 1 1 - 1 | 4 | 11 | 1 | 1 |

W. B. Lette | Veg. a. M. M. mit. 10 | 4 | 23

Il e tric secretie in B redome dier ee F Heet the first accretion in a recover either a cited the first beautiful red Web who of the 41 for full for first the first tary are t em a citath in litr u weeted fat t obsert to e a fer i f ft g a unahemn epecif th ane to er e w rei titsted i streets en eo ne) il T Il we and to be to Arct here tite he tes I to ed 11th long per and habeter point that lord mad emplithalm got F . Tak v tm I (+1th q16 34

In twent t thent I patient with expets a c th et leef ten et Lugil er t note ne Ables treller tour te ja 1483 Limit modifi mpublice li white c e ter W Ret so Deutsche Link f Ch 1 h The me all the a left W. W. Corert Sanda W. Wenth 941 3 Tres | the thymolphal | The is & th MA Dilii The rather treest file un of the ther at T I If the fact of the alloyed to the fact of the alloyed to the fact of the alloyed the fact of the alloyed the fact of the alloyed the fact of the fact

SURGERY OF THE VERVOLS SYSTEM

Brain and Its C verine Leanled Serves Mediga St E M Sec. 14 f be HII k Dun 1 The cuttime on milital timent floor and month if Obstrate at the Intra ra sal Inth 1 II (CARA 12 42 1 21 405 Compression et fraf j 1 4 ton 31 4 5 1 25 1 1404 The program ft tree 1 11 17 1 ati paths on 1 tasks (104) L C C TAT . Ct lal nat the 1 f c self [[t affecth I tl b S I mil i fare his cortal test it to be it tall g V 1 at 7 Val 1 old 1 1 OS The Inchief the Tarrat of the Tarrat of the Inchief the Internal of the Int 111 m l o j 1405 325 Ocul m feett fm t m t etace i et b | | 1 | 5 | 4th tells t Art to M J to a 1 1 1 Richal in including to I terminal conditions 3 540 14041 JR J 46 1 1 B by (B 12 1 14061 1 x 1 2 6 Carra IKB K Venclar, t (z X X 1 849 Cital lu f t ni, je ted jim by th oth f f of th m I R Z WI IS key took mild E t

Lat

(404)

kev teox mét g t / t = 36. Itma lim II 5 5 77

ccv t 6

Cretition in tappoer elegeristion de total elitera it based for med. 65C FCRS 921 t me graft was to the bont the worms to the total the terms of the ter

trem weldbidle ibn e stigt 110 A lette to be foots I the pit tany nd type I gand I til The tech ju lill eren type frame a regard of the first first form of the first fir H0 1 n) h Brit raind k Myn & call l he at all line at in the aline fly physical laber rooms literate trother make

04 20 thel t I ma I tl have I tl br a r i a 1 mit m It peph seltum. M Mrr # 21sc HII Nen Chrishell 9 1 448

my t th profits 1 2 2 2 2 5 5

B I J No. 94 5

B I J No. 94 5 Biller of 5
Miller from the high thouse
the tridings of the control of the contro Ciralitani k dinthi garis Of the most result of the template its 71 hr 1 ll 1 we Ohre helk 93 44 Mini t f ti la J t Frix Califona લાં મુંદ્ર જે માટે 1 acu se nat (S E SOR Winschr o ti 39

treptococ w nesti to ted by epe t 11 mbar I lat with complete reco a M G letten

t h l that to a sl o

Trifacial n ralma its symptoms diagno is d tre t ment 1 W Apsov J Iowa State M Soc 1924 Elv 19 Major in m nal neu al, a C H FRAZIER I Am M Ass 10 4 lt 302

The appa t origin of the ninth tenth and ele nth D VA NECCI St rement le 923 lt 1 cranial n 200

Spinal Cord and Its Coverings Experments on local sp cific therapy in p I omyel t

the utilizat n of hypert cslton in this rum t t m nt of experimental polimy lt W. L. Axcock d H L Amo s Bull I ins Hopkins Hosp Balt 19 3 [497] z. u 361 A ase I pin I c mp n localized d graphic lly by S ard m th d R N IRONSIDE and C D SHAPLAND

by ard min is K value

Bit VI 9 4 149

The different and of the p iff din miltipl

scl ssand compre on of the sp 1 rd W GOEREL

1 1 1 2 1 444 sel ssand compre on other spiritum and Alberta Red Min 93 L 454
Contribit to the study fit medully s barach a dium and the total toof the punal nre
A Max Ri Piclin Rune 94 t is em d 33
Prim ry tum rof the auda equina L E Actam d Scan 1 o 3 h 57

Peripheral Nerves

A case of typ cal penpheral gl m of th median L CORNIL a d A B ANGER Bull t mem S c d P 1923 cm 70 A case 1 fib oma of the ri ht medi n A RABAN GER Bull et mem Soc anat de P 0 3 cm 649
The urgery f sp st c p lys I J CAEN LEN The urgery f sp st c p lys W sc 1 M J 9 4 xxx 374

S me res lts of nerve anast mos C BALLANCE Brit [408] I Surg 1023 1 327

Sympathetic Nerves

The p t ral influence of the symp th tic innervation of lu t y mu cle J I HUNTER Med J Australia

The pathol gy of the ce cl sympathetic H KUEM MELL IR Arch f path An t 19 3 cc lvi 347 The one at ve treatment [g pector by extirpa t on of the c v al and thoracic symp tletic and re marks on the p rat ve treatment f n b rmal rise in the blood p es F Brue 100 klin Wchrischr 023

11 777 Lencle Lencle peration technique and results J Latioz Re m d d l k ano 923 x 1 431 Symp th ctomy A Schwartz Bull et m(m Soc nat de ch 9 4 1 2

A prel mi ary report on a te ial sympathectomy in cludi g a report of two cas s L A CAMPBELL Su g (y c & Ob t 924 vex 1: 81 P narternal sympathectomy and nc se ulcers of the le Bardon and Mari Ev Co NAT Lyon chir 1923 xx

Injury t th blod esels fill ing pe terial sympathectomy E Kreuter Z t albi f Chir 1023 685

Miscellaneous

Me i git c sympt ms in lumbar punctu e W C Siller d F L Payne J Am M As 10 4 lay ii 1 6

Neu ol g c la d su g cal ob ery t son neur s rg ry S AUERBACH Deut che Ztschr f \ nh tozt l u

SURGERY OF THE CHEST

Chest Wall and Breast

The fice f the true das the deel pmnt i the mmmay gland P Platt Zt chef Bi 1923 | 1 63

Tru bil te 1 m mma y hyp t phy A W HUEBE NER D utsche Zt h f Ch 93 lt. 4 Th tr tme t fma tu Na Mann D tsch Zt hr

In the trainer of the first the trainer of the 9 gclx Ec m 1 th b t D W Mon on an d C D CLUVE Med 1 & Rec 0 4 cm 93 Cl cl beevat t b r l 1 th beat with rot of the cost C C UVIN 1 ch f c b lgc dech 93 xx 1 00 (mma ftheb t FF ADIR A Sg 94

Ti ase fm mmayn pl ms m C Bussa Lay Plchn R m 94 c p t 8 L Loopbag ga l m fth beat L Stutzad R Fontaire Red ch I 93 xl 646 [410] T. Bussa

T achea Lung and Pleura

To s th lg TAMc of f gn body GIBON JL ryn l & Otl R pot g the p t cas MIN Layngo cope 94 xx. C rn k l th a p 9 4 b h M E NEW 35 F H Roost J La et 04 ! c

Per onal exp riences in b choscopy d cesoph gosc pe during the p t year E McGrans Illa o M J

9 4 1 4

T atment of tubercul s pulm v supply at a

T atment of tubercul s pulm y suppu at o C A HEDBLOW N the est M d 1924 x n

Where I the lung with report I tw cases N B HEWMARD J So th C r I M As 1924 T 4
The valu I the lat I pry cloin in their nigen y e m tion of th chet with p cial r fere ce to the special trum till bace I the I g L T LE WALD a d N W GREEN Arch Sug 1924 1 265

The urg. I treatm nt of b on h la thma H KUEM MELL Arch f kl: Ch 19 3 ct 7 6
B chomycos E Steinfield J Am M As 1924

L vn 83 B chob! y fist la E OLIANI Ann ital di hi 9311 88

Faperim ntal cl fl ge bro chi study f th f ct s con ned n fal e f th b o chi t heal R B BETTMAN Arh S g 924 V 48
In et atons in the healing poes in lug w

I SAU RERUCH nd R NISSEN Arch f klin Ch

c 58
The sele t a of pati at ad fope at on a the su gic l teatm t f pulm a y tube c l s H LILIENTHAL teatm t i putta ay concernation Am J S g 1924 x x I
P eumotho a with c r pot f spo ta eo s
id opath c pn m th av C G referre Elli o M J

Deep roentg n th rapy f ne pla ti pulm n ry m ta. tases W A I va. s and T LEUCUTIA Am J Roe tge of 1924 31 3 Empy ma of the pleural cavity G E HEUER Ann Surg 923 lx 1720 72 [410] I mpy ma treated with gent an violet R II MAJOR Med Cu \ Am 19 4 71 1 51

Heart and Pericard um

I tracard al inject us R. BACHLECHNER Frg bn d Ch u Orth p o 3 xv1 z A case of pyoperica dum. W. V. Engentilla d I ne. V MATHER BRIT W I 924 10

(Esophagus and M d ast num

A r port of case of fo gn bod s n the resophagu P I ERRICART R 1 Asoc med argent 923 Tex 1

High frequency th rapy n d ep scar tis ue inclures H Preare Min Wehn hr 1923 1 706 An wm thod for the rly dagno I mediastin tu following niu y f the exophagus by f e n bodes W. Minigerode Zisch f Hals ha en u Ohre hilk. blud es of status thymicolymph t us C HART M en

Miscellaneous

chen B gma n 19 1

Fxpl ratory the cotomy in ll e e e in nes of the chest L. W. Doec I La cet 19 4 xl 18 The e case ill strating the pen method fintrath r ce so ge y E G Beek treh Su g 9 4 vm 3 7
Th copl sty following th 1 ss 1 the th ra opleural tis ue R Postiti. A ch sal di chi 1923 vi 477 The i dications and technique is man it hest su gery D W D at G T Parmer and H H Core III M J 1923 xh 329 14111

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum

F broke my ma of the e t nal oblig e muscl bd men G C PERACCHIA Ann ital di chi H rnia of the int stenal wall A A Kosyres Wester k Chi apog n obi tei 9 3 m 11
Th result f ad cal ope to nd p lliati e c r gu nal b rn 1 th wa S PELTESONN Arch f kli Ch 10 3 CT 71 493 A fundame taif of re the recurrence fe guinal he ma M G Seele and K S CH UKE A h Sug og Dirmod cyst 1th trans erse m coln A Schaar and E Srutz Lull et mem Soc a at de Pa 923 X 11 72 Had tid eyst f th tra rise mesocol M A Branty Le dem dycrug d l Haba U usual timpt i po i neous re very i a inca crted hernia S von RE. R De tsch Zt ch f Che g 3 cl xx 68

1 asc of subdi phragmati abece s E Mervier R digin ott ped tem dgn q 3 xv 30

Gastro Intestinal Tract S phili of the lim t ry t et D D Pactes J Oll h m St t M Ass. 19 4 xvi 7 tudid dngt Gasto at tal ses tyn e y s ct v practce fm d i e n Atla tc Ct y
Stewar J V d Soc N Je ey 19 4 x 1 6
Cat f stomach formed by a mass ff n // B n boda C J Mar H tl Brit J S rg 0 4 h 59 F gn bod es in toma h J D Cristite J 1m M Ass to 4 I tru 3 G Epuors ActamdS doals (a tropt The u gical te tm t f d p thi gast plosis O MARSHE ANY P belin Rome of xxxi se ch 26
Def to in the contou f the st mach multing H ud ks ih A. Bas LER and J R. LUTZ Wo J Roe tg n 1 9 4 x 74 Castri d'e ticulum d'e to n'abe rant pancrea. I Vici d' W GAMBERINE Riform m d 19 4 xl

Castro intest nal m t l ty J C Statey Minnesot Md 94 vn 3

The fi ce f the pylorus upon the cha acter f the ga tric se tion Koevvecke and Juv Erm vn Klin W hn hr 923 1 973 The pyloral syndrome in child xelles med q 4 3 4 G RUELLE, Bru lles med 94 34 Acut dilat tion of the time h R G sgensonn Arch f klin Chr gjet Arch f klin Chr q J cv 463
G tro copy a n w method f introdu t n f the gast o ope G F HELSLEY J Am M Ass 19 4 introdu t n f the Loco 7

Technique of ga tr copy H ELSVER De tschem d Wehnsch 19 3 xlax 4 2 New observations I the e sory phys I gy which tad

dee se th da g of gastrosc py W STERVBERG Zentr lbl I Chir 923 1 156

Ch cal gast ot ometry gas nsuffl ton 1 gastne therapeut cs R GALL IER Presse med P 9 4

G the chies if d by all tomy E Thousen Act med Sc ad gas lx 66

dyspep as I w men A. J Walton Th cho Lancet 93 cv 333 [412] Focal infe t in ulce of the t mach T N KANLRA (413) An Sug 94 Lax 29 Part I Th Et logy

The p th logy f gattre ulc Part I The Lt log of protice ulce Part II I thing I be to no o gastri a d d od i ler M J Stewart Brt M J 19 3 9 5 10 1 Gastri and duod nal les d t sf th r rg

& ns on

cal te tm nt nd con drat as upon th r d gn L SERRADA Arch fra co beiges d chi 1923

5 rprises gast educid I ulcers Let Heren 1 g de la cli Madrid 9 4 43 C rtaun f t to be o s d red in prognosing cu of 5 rprises Crtain f t pept ulcer F Sur HES An Clin M d 1924 11

Antauds in the med I management of pept 1 : HI SHATTUCK EL RODBEG dLE BOOHER J Am 11 1ss

Am VI has 9 a free it 900 Gaster and d d I ule m deal tr tim t d u great deato FI C RMAN J Med Soc V Jersey 924 to

The choce of operation in g stric and duodenal ulcer R P SULLIVAN Med J & Rec 19 4 cm 93 O gaine hurglass st ma h with s m f ence to its urgical teatment II P Doub Am J Re tgenol

Ac te perforation f gastric and duodenal ulcers 1

PACCEET PAIR Chi 1923 v 44

F bservatio so fule sp forting int th peri tealen it, B Deselas dP Freder Bull et m m So nat de chi 1921 l 8

So hat dechi 1924 1 8
Acute perforated ulc of the tomach J A Mc
CREERY Ann Sug 1941 31 9
Hels
The justification of res et o n perforating g tric d
d od ! ulcers H RIESE Arch f kin Chir 1923

At charge f the coofulcers high in the tem ach G Liver Arch front blees de his 193 t

1001 C mpl cations f ll w g perat on f g stric ler S S Kusmix Verhandl d I u Chir k g Petr grad

1416 Recurre t ke of the st m chadd od m I nic 1 n teson in d c d gn a d t l gy G B Elsren MAN Minnesot M d 10 3 1 698 [416] Idi p thic circumsc pt phlegm n f the stom ch H

ZOEPFFEL Dut che Zt ch f Chr 923 cly 58 Syph! If the stomach roentgen apped it rette tm nt L T LeWald R d l gy beí e 923 1

417 A roentg ologic 1 t dy f b gn tumors of the st m ch A B Moore Am J Roe tg n 1 9 4 x 6 [417] A pedicled t m I the tom ch Gosser Loewy nd BERTRAND Bill et mêm Soc d h de Pr

(418) XLX 1182 My ma of th stoma h E WEBER Ze tralbl f Chi 023 1 558

The qest n of lc cun ma f the t m ch H Fistere Md Kl 93

T PLAUT Arch Th question ic mom to le

f V td uu gsk 93 xx 5 Ea ly dig of gatra ane C \BAD Cln y

1b 9 4, 50 Exmit n fstm h tnt ly c gatn cac C AB p Cinylb 9 4 ly d g os gatn cac CABD (In 1) b 04
Pho gastracan g tpletmy cu d lpmetia cod y can er of the b three years later nth absen of adem t 11 e enth tmch nthatsun NBU tmem Soc debu d Pa 923 zh

418 Total e ct Total e ct f a 1 om t tm h G KEL 458

Primary sa com of the st m ch H vow F G Arhfpth Ant Phy 1 923 . Ar ca oft m ithe mil tet e M ARESU

hitldih 923 50 Blryile blytod od 1 fist 1 BONNECAZE and LECHATY Bill et mem Soc at d P

llud t gli t potfadJGrs Ahfns belg d h pot f ca E Moons n sdut sand E He N Z talbl f Che 19 3 1 539 Sp ti 1

W KO VECKE M med W chusch thusch og iv 98 Dod nal h ni — a mi m [418] Sg I AND W [419]

Cyn c & Obst 93 74 174 Ch c o clu f th d od m by a m se te bandı a case of g t pt ff ct d by d ode 1 Jun t my sec d y to g t t t my COTTE a d CARRIVE Lyo chi 923 778 [419]

Chronic celus on of the d denum occu n g in ce opto is based on a study of twe ty-eight cases D VANDERHOOF and T D DAVIS VI m a M Month 1923 14201 Duode al ulcers their detection by ph togr phy

Disone at uncers their detection by pa togr phy I Car varprise B toll Med Chr J 1924 xh 16 An unus l ca f p rf rated duodenal ulcer H L Schurmeier J Am M As 924 I 1 302 The surgic l t e to t to t he n r ectable d den l

ul er resection f th st m ch t e clud the fc r H I'vsterfr Wien klin Wch sch 10 3 xxx 1 425

D erticula of the j ju um c se with nie olith cau g inte tinal obstructi n C M Warson Surg Gynec

& Ob t 024 XXXVIII 67 The relationsh p f jej lulce to the use of unabsorb-bl utures J M RENTON Glasg w M J 923 s

The ca e of a testa I disea e A BALDWIN I oc

The ca e of 1 tests I disease A BALDNYN I oc Roy Soc M d Lod 19 4 u Sect S rg 33 Symptoms of phl gmo of the intestine R LELCHTEN BERGER A ch 1 pt h A 1 10 3 cc lv. 4 8 A cl cliect e ch nc untest nal st or ou mech clrilt hpt r surroun! gs SER W A

LANE Brit M J 9 4 1 4

Tw ases finite tat f the intertine with 1 væ f

pe e I fann a A G Nicholls Canad an M Ass T 924 XI Su gic 1 d p ras tological n te four cases of inte ti 1 bstruct n d to ccumul t f l rge n mbe of

ound a m J J Levin and A Porter Brt J Surg 9 4 1 432 Two unusual c ses of 1 tests 1 obstr ction C P G

WARELEY La c t 924 180
Th rôle f hyd amia and th ature of the to in in

nie inal ob tru t T INCVALDSEN A O WHI PLE L BAUDAN 2 d B C SMITH J Exper Vied 1924 7 The treatment fintestinal b tructi Sir W TAYLOR

Cadn M Ass J 94 x1 2 S go I t tment of c nstipat n G BRORÉE Bru

S gi lt tmene 60.224 285 retlle med 924 285 Th l of ente stomy C D Brooks and W R CLINTON J M chag a St te M S c 9 4 m 3 Anter techn q f r ct on of test e C F

A put teening ir cton or test e Ur Horne in Sug 924 htx 100 Reetion fth lige testine by man of 1 ag t C Falkeyburg Ach f kln Chr 1924 cx n 407

A f Hirs h prugs d se nu l method ol ma eme t H C Berger M d Cl N Am 924 nu 1 method of 75

75 Cluic land d I geal study I p thogene f mega c lon R Romani Rif m m d 1924 vl 8 Th t atm tof m ga lon n childhood F Monnier Schwei md Wh sch 931 973 Val of care stomy in adva ced cane c e ssoc at c with bstruct n W E HARTSHORN B st n M & S J

10 4 C C 95 Pt adtor f the car m R ARAYA Sem a méd 1924 x 66 The spec men i tone caecum em ved by operation LEC NOR LRY Proc Ry Soc Mi Lo d 194

E C Vor Les
S et Sug 44
Sec le 1 fom pe i rel n I pene le membra es
re le 1 fom pe i rel n I pene le membra es le t fom per act n I pener remembra Cæc

I fi mmat n f the acum infet u ca se and th ir end mi occur c A Fo 10 Schwe m d Wch ch 9 3 lui 947

riped - aid erem d t c neer fth z¢ Teroin Lions t Bil et mem , of t rin as poutse s I the visi i R regordby ma h mol 3000 TE IC | (NAK LES Brit] LA THE TE CR. ROTS , 1 1674 I trink 1924 1 33 D Giordino Sr J W 11 177 am 53 1 H H 1924 المستعين 43 I Lawrence spring ! t cholecy titis ALLAREZ received decrease q 3, 4?

It is a seminded pum ned the a long and a seminded pum ned the constitution of the con polication f ut ppedicat 1 1 1 8 5 tk 10 4 tz 14 Put 70 ! La land "I MANNAB RG II e Ches Trees to 655

H have that the t mith JR IASTM 1 2.7.E al had ags Che and the late of the late o ch nc [421] ology of B C City tay i Bull 10 ppe i t n The in ese 17 LII I INSON

I fine to no ese 1 conclusion of the fine uge y f the tran Se col n P & PRIJA OFF A ch I Lin Li in 14th 1 gy ad the lum f a process of n P A the except control of the control of the lumber of the lum In an i part of

Impe on fru pean treet lyv 1 J liteser was I can lead to the lead of the leading to the leadin al alulu R MINY FUR CLYGO d Others B B CHRICES HART See d Cum J FL T T J Im H MI I the r tum Okincise Harr 275

Can e of th ctum B H Berles im Wd 19 4 227 44 ATT 44.

An perm (dax ma fth reet m G CRCCEN)

R form and of a to for tall was C J DRCCE

(the art man the death are C J DRCCE

(the at n m th the dath arm the depart of 1

Dryssee over 7. all (C) or 11. DZIALOS YYSKI ZŁ BILICH 923 I 13

Live Gall Blidder P n re and Spl n The get f per m nt le ls of the f nth & Ha teriol 9 4 x vu 95

Some observations on the phen lietrach! robibal a test fl er f netso D \ Sitterua \ Orle & M AS J 19 4 I 1 333
Ph oltetra bl rphth ! n li test S S Green wa and H B own I am M ass o a lexus 83 It er and thro c abd mu il s fect n C. G Heyo in Surg 10 4 L xie 55 Sol tary (n para stu) cyst of the h e II \ Stas

\ Orl n \ & S J 1924 L 1 325 trahepati Ost 1 th bl ry tract with st 1 G Donaga Z ntralbl f alig P th u p th mat nat 933 x 1 5 Hyd t d f the p capal biliary passares perfeatin f Anat the right hepatic duct chol pent num Lecoviz Levely Ménégary a l Mon) Bull et mém. Soc. s at d Ia 913 xcu 661

L Co n. dR Lee in Bull. L poma of th ! et mêm Soc 1 de Par 1923 xc 2 6 Reco tru ti gan j ed anomal ush pati d ct W f the 1 trah patic ble d et L Civit A carrasi W TTA I Am W Ass 10 4 lexx 8

If pat pery by Pal ecchi m thod L DE Lica. In tald ch 19 4 13 Sem prat alpont 1 thed osus if tre tment of gall bladde d stase W L I Erth Virginia W W th.

01160 Diagnosis f the diseased gall blad r L. H Farra Stat VI Soc 024 XI gall bld er ndd et The graf a ce of glycos n 1 d rase [A LICHTY Am] W Sc. 924 cl 7 The ppes o f gastn ch m m 1 g ll bladd d ase and as agual and of rant rolds rescal the rapy 10 t 1 ch f 1 rda ngsk 0 3 xxxx 6 Th coess te e of hol cyst t d fuod ! let m

gastrome case with the report 1 se e al rece t cases. las : 207 E d II O mr G Surg Cyn & Obet., T chn qu nsch 9 som cases fgall t eftm t bubbs rat n'this the ben ftal. the Market of the second of the first of the

Med 9 4 xxxx 77 97
Som 1 m ks n gal 1 nes th treach rest Riftma W J f gall brever dieses f r gall Ved Pr 9 4 n c Ch I the th pe al fe m f Pan re t c mpi cat on , J. 1. 1. 93 15 Obs. at r 5 C_{tt}

I me I BREVIAN 4 ch 1 kt 1.5 Ъроп km k nth u calt im nt frail ign sing cur's, Store Md kl 93 v 1c Rail to Med 924 ? G St CER VI d kl calt tm E penme t l m h h h h l ti fun tal q gi. 013 ! în cii The cat and tat bles teet my J H C pept c ulcer Reu thilthrus HRD k

> Vi gun tra t

94 1 p ed u ooo be i u ? M (n It at Matm tad rall ld ld P T pogr ph 1 ti Carrente I lin ha despet of

The acterus undex (a quantitative estim ti n of bili

The acterus under (a quantitative estim in n of bin yulunemax) n din d'agnossi and progno is A R Breventa J Am VI Ass 0.24 [even] of Knotting (1 the d oderal tube dourng b har; drannage R S Botzs J Am M Ass 0.24 [ev. 1] of Chottente n I the chol of hus by ech coccus cy to O knostery D to he Zet chr f Chr o 3 cl 4 o.24 f r ca f r in the min by de os f th main bit of the chol o

Ca cinoma of the p p lla f V t r I \BELL South M I 1924 X H 4

Aci cal review of 10 c es of d e se of the bl ry tract t ds gically I Lazzarry Ach tld hr 1021 VIII 541

The phy ol gy of the pancreas with sp c al refer nce to the paper to function in ge al metab! m T Hough V gr 1 M Mo th 1924 | 655

S rgical les on of the pinc eas J W loss Canadian Pract. 924 xla.

The part of the paces KDC vs Vigni M Moth 1924 1 66

The diagn sad med cal a pect fds f paceas J H Surre Vign VI VI th 94166 S bacut p nc e t t 1 asso nation will ac te nte t nal a newb n inf nt T T Hisgins But I

S g g 4 x1 592

Acutep etts HJ WARIG dII F CRI PITHS Bot JS g 19 4 vt 4 6 Acut been rhagicp c atiti M García laure and J M Allende Seman m d 19 4 x vi 69 Acute p ceatit s with f t c s c mpl t d by d bet c coma J Rodriguez J Am M As 9 4 lexus

An unu Im lignant time fith p c N of Foor B N Carrer a d M J Flirse Am J M S 19 4 ckr 11 6 The gyithepacr ADOwn Evygna M M nth 941665 The ple addget

The pie addget Stdy IV Th pibiliary ctn th reat blpgm t tfl ll w g plenectomy W D P I LOV Am J M S 10 4 d ni o Plpt of the pin W. S. Mindple on Am. J. M. S. Aride on Am. J. M. S

Sple om gahas W J Mano Bost n W & S J 9 4 Dgo: of condt so ated with pl nomegaly

H M CONVER M nancet M d 94 35
Experi ne s ug y f the pleen R M zesaux Arch f kl Chur 19 3 45
Fatal harmatemes aft pl ct myf B t sd P Noona d C S Gm ov Brit J Surg 924 1 58

Rupture of the spleen J C McCRACKEN Ann Surg 10 4 lxxx 80 Tr umat cruptu e of the o mal spleen with a report of M As 10 4 TH 18 Spontane u rupture of the leukam c sple HAMMES

FAUR Zentralbl f Chir 1923 I 1634 Splenectomy for traumat c bout ous rupture of the pleen report of to one J F \ JONES Am J Surg ous rupture of the 024 X XVII

Miscellaneous

Some s boutane u pries of the abdome C Ma ns cvvii 25 47
To ca es of n n traum tic diaphragmat c hernia J M Mapi Avertia Arch d med ciru v especial in a

Non t aumatic berni of the daphragm an embry I g c l se point I G Richards A Otol Rhi Ige I be point I of Richtens A Con Ann I of Lyng I roga xvu 45 cognut d typhod fever R H Harbit J Vid G right a graph 4 xm 4 The t bdomen W C Crupp 4m J Sug 1944 xx 6 [424]

Observ tin n cuta eou hyp æsthes a m acut ab d mr al d seas Z Co r Lancet 1924 cc 1 12

d mi aid seas L Co E Lancet 1944 (c. 127
The cte abdom pmptomat logy a d patl logy
W H IRNINE Canada M A J 1924 iv 29
Sympo m n d ffere t I d agn s s of abdomi al le
sons I NECHIB LD C dian W Ass J 1924 uv

Aplaf a mo e defin te interp et t on of abdominal pain A L I zvin N O lean M & S J 9 4 lxx i

S gic ls nif a of abd minal pain A E Ritaines

Ann Surg 9 4 lvu 1
S bphren i ction—c e illustrati e f the d flerent forms f this conditi n L CLENDENING M d Clin N

Sorms 1 consult in a CLEADANIAN 14 Com at Com

Clinic I and phys opath ! gi l st die of ascit s J LÉ ESQLE I re méd Par 1924 xxxii 54 R t oper t al t mor S H BAYTER Minnesot

Med 9 4 v1 4
I trume ts left 1 the pent e l cavity the effect and

es it i this accide t a h n by an analysis of forty for h therto np blished c e C White J Obst & Gynæc Brit Emp 9 3 xxx 60

GY NECOLOGY

Uterus

POLLART R The tosa all met stics P POLLART B lle méd 9 4
The uter a all met dethe literate of the uteru J F Dreks NOI Mes. t 9 4 45 It nt d su M & S J 9 4 330

The peats te time t futers t fill w
The peats te time t futers t fill w
1 g pr g cy H VOLET Re f c d gy éc et
d bat 19 3 vn 68
, and the time t f peats nthe ond
the time with a sg stion I gam nts f r etr ers f th teru with a s gg stion

fo a p oced of inc easing the cope of useful e of the Ale dr Ad m perat n J H FERGISON J Ob t & Gynze B t Emp 19 3 xx 382 [426] Ut i ein sio it tratme t R Rinesi Re méd del R sar 923 x 393 Oper tio for ut n

Polape F A Gun Med I tral 924 1 37
Ut u dd lpby F C Newton Ann Surg 1924

It.

The ute s nd 1 a da g o s nd un c ss ry 1
strume t M Hrascu Zt ch f Geburtsh u Gyna k

Am 93 m 1557

The tre tment of go orthoral endocervacuus by h at B C Consis and Y J O Covior Surg Gyner & Obst 19 4 TTTVII 119 Reneated t n e ham ribaces byste ect ms reco ery

case report L W FRANK Lentucky M I oza zzi

The tre tment I metr rih gis with organi prepara trons E Zverrer. Arch de med cirug y espec al

Axial torsio of a uterine fib oma L Dietzare Bult Soe dob t, td gynée d Par 10 1 21 50

t uterine fibr ma s m lating interrupted p egnancy COMMANDEUR and EPARVIER Bull Soc dob t t de gynéc de Par 19 3 U 559
Th treatme t of fibro ds f the ut rus E C Roos 14261

Ill not M J 923 zh 50
A prapubic b cess foll wing roentgen treatme t f
ten e f b oma R DE VECA BARRERA Pr g de la clin

M dend ro 3 xx 641 S phil versu ca noma of the cervi uten A S

JAECER Uol &C tan R v 1924 x vu Report of a ca of aden ca co om f the body of th ut tu J S Horsley Am J Ob t & Gynte 1024 vii

Va thom formatio n th m cous m mbran f the ut ru) th] ese ce f ca cin ma f the fund s I Does Ze traibi f alig P th u p th Anat 923 xxi

A case fi is nofthe ut rus can ed by a sq mon ell car 1 om I the I nd H W LLIAMSON a d G F APPECROMBIE | Obst & Gynze B it Fmp 10 1 AXX

The ppl cation of dismining rible robord line asses for a crioma of the cervi ut before ation II H Bowl G Rad | gy 1923 90

The at of rad m upon can e ith cr. T Zs D N Ohi State M A. 9 4 xx 4 Th u gical fight aga to a of th tru Marti orn Ri d gi ec ost t ped t e med gen x 1 347 Th t tment f ca er of the uteru C W Moors

Oh State M to 10 4 XX Syst mate mpl yment i M k l d nge i bys t et my fre r f the e res of the uteru J L Fatre Bull Soc d b t et de gyné d Par 9 3 m [427]

Adnexal and Peri Uterine Condition

hatr cas n the te im at fambul try the flammato y tum is of the dn a F p the te tm at fambul try pat ats ss th Z nt lbl f Gyna k 19 3 xl u 185 Pelms ary n te n R bn m thod of nfl ting th tubes with modifiation of the app to B Solomo s N I P m thod i d t rouning the pat cy i th | 1 Αп t bes a e f t nbts d t th bstruct n G S CURRER J Ob t & Gynne, But Emp 03 x

1 mplified m thod f t tag th perm blity f the 'n 64

Ap et al sit atin ithe Rub teh q nt mod ficat n f ta tran as El to A h f non-belges d hi o t ou t mpl ppa t frrcgnuzg th pe mablity f the t be to f f c uses 7 t blif G k 9 3 1 11 1760 am thod ft balin ff.t B Orr w Z trafbi 1 G ak 10 3 st 175

Congental t ru n of a f Il p 1 tube La tège B Il et mem Soc a at de I r 0 3 m ? The cases flore o fahyd osaipint JP Torkyere. Bull Soc dobt etd gyné d Pr 9 3 % 581 Tube cul us salp ngitis M T Want Surg Ch

14271 X nthom of the fallons n tube C DANIEL ad 4. Banks Cyne stobst 193 11 9 The inflee of q I tate n triten n the funct n f

th ge rat ve glad A. Ecastery Arch f d as Phys I 1923 cci 6

I truate n nd o ul t n (it rel t n to the nternal ec et n of th o jes) I FI CHER Win med hasch 93 l to 8, The relation bet en the gental gl d and b eat fun. W husch

t n B Schweitzen Zentralbi (G nack rott d a

The relat n of the endometrium to aris for it C C Norm and M Voor Surg Gyn c & Obt 94 22 III 22

Observato so the blty f the mammali n um C Harrier Am J Ob t & Gynec. 9 4 40 The funct n f th corpu I i um J Marsty, M nats ch f Geb rish u Gyn ek 10 1 10 117 Inter t tial ari gl nd in th newborn J Marsuno Ztschr f Geburtsh u Gyn ek 1923 lxxxv 523 O arran 1 s ffic nev I H Herroy III is M I

10 4 XIV 37 O anament psy C Everse Minish I Geburtsh u Gynak 931 56 Onnfeding J Rocers Vid J&Re 194

CB 32 O anamyst two ted sep ated from its attachm to a digraft 1 the great me turn secondary this fit to om stall pedu to J. Morrato md L. Van Bolker A chift no-obelges dhis 93 xx 1 16
Ooph ritis and false on na cysts Beyto de Lekos

Arh br I dem d 93 zz 57 Osse egments peud muci ou o nan cyt k kice Utt u b all Path u p th Anat 193

As nfect do ana cyst mmu at g with the rec tum byst t my cut Cos entry and Fricovis Bull Soc d b t et de gynec d P 9 3 70 484 [428] Pregn cs fte u f te gl r tomy fr cist L DIECLAFÉ B II S c d'obst et de gyné de P TO 508

An I tati fan an tum in 6-ye r-oldichid E Herve Z ntribl i Gyn k 1923 ti 855 Apdel dibb m fithe right ary sim latin renal Anii tatu fan etpaad murd yst ithe left ory Bull tmem Soc td P o23 xxx M MA Y 923 xcu 666 A ase of prim rv lymphobl t ma of the Petra Policlin R to 0 4 xxx se b 5 1 1 t d meta tasis f n ria c m n th cen nd porti uten H Kee Ten M t s hr f G burten

Cial 93 kg 93 P stope t roe tge tr tm t; cases ft mor try M SP VEL t L A ti t p 0 3 377 A case fl ft ooph tm \ L F A GEL R pet d tr tm t; cases ft mor f

med scrug o i

Exte nal Genit 1 a

(ng t 1 b f the gr f m f by tapl tt franço beli, d 11 qod 1 I Viz tr 4 h d ha hı 9 j 47 gunal sut fith le at tin (p an I th ginal p l per J \ verte \tr h françoaf belges de hi 023 v

Ch n c ulcer of th vagina of undetermined origin I kaoss Am J Obst & Gynec 1924 vi 193 Fou c ses of vesc oa gr | fistula t cated by a mpl operati procedure M Rosso Rev a gent de bst y gibc 1923 vi 346

The treatment of vulvar c cer P Petit Dutallis
Gynée logie 923 xxii 513
A c e f sarcoma of the g a J P Tourneux

A c se f sarcoma of the g 1 J P TOURNEUX
B II Soc d bst et de gynéc d P r 1923 1 593

Miscellaneous

The ope of the department of gynec 1 gy n th M outh P cife Hosp tal G Gelliony J Misso 1 St t M Ass 1924 xxl 6

The relation between the thyr id a d th f m 1 geni

th H CURSCHMANN Muenchen med Wich schr 19 3 lax 912 Th r l tun between the thy add th f m le gen

tala H KNAUS Muenchen med Wich ichr 19 3 lix 660 Chinical tudies fith lit n fithe appe d t the fin le gental tre s O BEUTTNER Gynfel live on

Me stru tion F Hitschmann W en med Wehn ch 1923 Ivan 685 106

Theb astandmenstruat on Pola o Arch f Gyn k
1933 cr 59
The ffe t of th pl c nt o m stru tio A Jacoby

Med P ess 1924 n C H H

Men tru tion and h 1 met bol m E Sieburg and
W PATZSCHKE Ztschr f d ges e per Med 923 xxx 1

The d sturbances f menstruati d the file face tracts \ von Feren M t chr f Ge b tsh u Gyn ek 9 3 ku 267

b tsh u Gyn ek 9 3 hu 267
The tology of men trual e nthem W P TZSCHKE
and C Sieburg A ch f Dermat l Syph 9 3 d

55
Men truat n nd it d ders at pube ty a d e ly

adolescense G M Brown J Mehg St t M Soc 1924 xmi 15 Menstruat deplep y Water Ach f Gyn k

193 ctx 70
Leuco hor a dist time t J W Burns I ac
tit n 924 cx 53
The cd ce f ldis pt t ffen g

The cd ce f lds p t ffers g th tenity A B SAZIDFO C | f n a Stat J M 1971 x 437 tend f n c | f n b stat J M 1971 x 437 tend f n c | f n b stat f m 1972 f n stat f n stat f m 1972 f n stat f n stat f m 1972 f n stat f n

What relation exists between the endocring disconnection of the stenlity of the Potterser California State J M 1923 and 46 The discount of the stenlity of the discount of the stenlity of the discount of the stenlity of the

The dagnosis and teatm t istenuty F hi Looms Clf in 'state J M 1923 xu 466 [429 Stenlazat n of omen from a mo al a d legal view pot t G Levrand C Fixo Riv deginee ostet ped at emed gn 19 3 34

A virgin bi al specul m (adult length) V C PEDER SEN Am J Ob t & Gymec 1924 vu os The relation of back chet gynecol gy W P Graves

B t n M & S J 1923 clax ix 1057 [431]
Conservati e gynecology Q U Newell J Misso n
Stat M &s 924 xxi x

Ogn therapy in gynecological diseases F Barach
We med Whin thr 93 lyvin 63 1666
Vici e treatment of gono rhoea in the female L

V cci e treatment of gono rhoea in the female L. RRAUL M n ts hr f Geburtsh u Gyn ek 1923 L v 203

A s b tan es njected ntraven ly sto ed in the f m l ge t lia? J kichter Arch f Gynaek 1923 crv

154 6 Hyd t d sstsofthepel s M F Dévé Rev d chur Pr 94 lu 5

Ir phylactic treatment of chor n p thelioma J Leon Re argent de obst y ginec o 3 11 349 Ch n nepithel m a die icular m le Quirico Corda

Ridigm c, ost t pedite med g n 1923 338 Prim y ch n p th homa of the boad lg ment Bergerer d Mollowgrer Gyn(c t obst 1923 11

5 8 [431]
The different histological netices of finile get t lean er and their ratioa ties situaty F Bertology Actinot p 19 3 m 239

B lgc ich gs after weak nige irradi ton in ce tangy ecologial c ditions E KLAFTEN Ze tall! f Gynaek 923 l 1717 Thet eatm nt of gynec l g calc ce w th rad active

The team at of gance I geale ce with rad active sist cs \ Dodderself. Strahl ther p 1923 xv 766

E pe se ces with roe ign treatment of ca c r in the

El g Gynecologi al Clinic II Wistz Strahl n therape 9 3 v 770 Cynecol gi ald p v rayth apy II Marrics B nn Coh 0 3 Method f sesthe in gynecol gy Schicker 6

Method f æsthe in gynecol gy Schickelé.

Gynécologie 1923 x 1 612

Reg I anæsthe a n gyn col gy an l bst trics W

R Me ker a d B E Bo ar S tg Gynec & Obst

7 3 XX II 8 6

The operat treatme t of 1 co time ce of un in the fem 1 1 E MANDELST MM 1 e h ndl d Ru. Chir.

KgPtrgrad 923 [432]
Th le i ta gyn lgicl pert n II k
Tuttle Am J Obst & Gyn c 924 vi 43

OBSTETRICS

Pregnancy and Its Complications The Abdeth Id n ct F C SM 71 d A T

Stitute of the state of the sta

Blood I me in pregnancy II J Stander a d 1 % Creations Bull J ha ligh Hoop Balt 1924 xxxv r. Th. i el pm. tand str. ct. re. (the h.m. n. place ta (I STRACHES | Olst & Cytac But Lmp 1021 xxx Is on new after I lateral breast amount tin. G. H.

Sen Profit VI at schr f Ceburt ! u Cynnek 1021

I broma and pregna cy h st r tomy after i flecti e att mot at m m t my l Citizes Bull Soc dobr et le gende de l r 1931 11 57 be e pent cal sympt m in the third and eighth m oth f p cana cy cau ed ly fbroma a d sm ! tine append itis yomectoms premat red it e y reco e y LAURE TIE II II soe d but t de gynée, de Pa 1921 21 622

Tuberculos s and pregnance F SERCENT Cynec s obst to til t What I cates I field ated by el cal expense in julmi arytubere l's compleatin prema ey? () i s

It has beened in an executal cited by tuberou The Mann Conferinge 19 3 Et 5)

The manner m tolp gna eyen 1 ated by tube cu
1 5 West ex chand his reits Cync 1 g 923

Suph I in pregna cy R I Jon st Tx Stat

On the rifluence | program c ath W serma react na lon the clin clm feet t n of symbols F I Browne J Obst & Cynare B t Emp o 1 xxx 5 0 Ill otareal ribrits in the curse of pegn n s scrotherary Alber at and Bran abart B 11 50c Ham blicat processa ith red i nt pregna y a dil i merium 1 | Lantin nil linor bu g (vn c & Obst 1924 x %) 1 96

Intest nal or lu n a d ppe d t l ring pregnancy Cynec s ob t 10 3 PLACINTE nem (1 gn n y C \ nFRTT Pern I med far 1924 xx

Thre coves of pegna, with it a at n filled a sec ted with all minure. A B D way Proc R y Sec Med Lo I 1924 xt 5 t Ob t & Cynec 20 (4 33)

fintfood n om t The nontemptrogens 1 g of pegn ncy V J Hagor c and L Dget J Obst Alyze list Imp 193 t 57
St d I the to zen t I preg eva they occu n
Clig w J v Catre see x J Obt & Conce B t Emp 1923 xx 54 [434] In a a lint and a f pega bes H Helours Mateschr f Geb thu Go k 1923 l

To sent of pregna cy s gn h ed by a g I T LAV KE J La et 924 h 4 Obcarma i pegna cy F Derrey P franc d gynéc td bst 9 3 xvu 607 A theory f e lamp a W ZA ENMEISTER Rev

arg t de obst ygı 1923 139 The blood s g co t ti cl mpsa I OB TA T HAYASHI Arch i Cyn ek 93 L 80 onpt itrog itrog ous e tit at of the blood in dun L D PLASS J lm 11 [434]

lss 924 1 v 66 Lumbro t necimp VO OVA 1 M VIELLY B il oc d b t et d gyné d la 9 3 1 551 [435] Repo t of a ca e of enc ph ly—d agnosus bef s t of I bor 1 M CAMPE IL nd P W WI LITS Am I

Obst & Gyn c 10 4 11 04

Sympt strust f ct pepregna) A H R T

Z ntraibl f Gynack 923 1 735
The term of the complexities 1 pregnan y
Ascriver A ch f Cyn k 23 x 296 5

Labor at d Its Complicati na

Mat in I nl fetal o q es f d ! yed labo W Cours IR \ LE Rv d gyn c ed bst 1913 x

Mat en 1 nd fet 1 n equen es of d layed lab t J N MILEO R d gyne ed bt 1924 You

Deephalus 1 a two m nthe fet s abo tin U Chia RABBA and (CALDF t ; h v d ginec out e med se med ge 9 3 x 1 256

I remature ng gem nt m a contracted pel 1 d f m if n file fetal he d Garrery and Laborne B Il Sec.

d b t et i gyné de P r 1923 x 590

D tegrat n f the pl c nta in ut r placental anoplery List to Gynic et obst 1921 1

Inta r tra-ovular m teuryu n plece tap 20.

R Falk M utsch f (churt h. u Gyn ck 113 1 \ 45

Picenta p zer 1 fu s e ss e pregnanci e N Gilliatt Proc R y Soc Med Lo 1 1923 Sect Obst The m g m nt of placent pravia J P Citti L

Nel ra ka Stat M I 10 4 it 17 Th trestment Ipla e tapræ 1 C C RREAD C sru

Ry de gymec e d bst 94 x 11 2 Spo ta us tuptu f th ut ru with report of c se Spo ta ustuptu fth ut ru with repx R S Trres Bot n M & S J 19 4 c c 15 Intra ut ri de th if tus at the i i pre ancy with thereog t bl cause Mayer tr h f Gynack

9 1 2 00 100 At re pectant treatm nt I septic afertin F (Re tett Mo tsech f Gebrit u Gyn ek tost

iu 308 wa and beervation a borti a I Drost k VI J & VI d Acc 923 \$ 546 [435] The t tent formpl ted about a L. Borce A

(me 1 hst 923 1 25 Fire nee ath ooo cases faboru n D S Hittis rg () nec & Olot 1024 xx 1 83 Inil mm to n fil 1 x and pregn ney H B

SCHMIDT A h f f nack 19 3 cx I MARKS Med Son hites h topi ge i i f 1 traia 19 4 t Leurocyt nderath ocytes lum t t of th red cells

ne traut n per ny ni the harnost c si e O R Maso ani R M STORES Bo to M & S I

a s clara a 4 Ft t n pga s tfull t m J J CATLE I Am M A 120 97 A case f ttra ut the pegna co at t rm with a li ting

ch d P DELL lor Rialdre 14361 the malpegn nev the favorable outcome to merepot face C II Bown Am J Obet & Gynec

Oannan p gn cv tl the repot i ce L A Surro Am J Obst & Cyn c 924 A cse i ana Jreen cy J H Marr v and D M I Tirke J Obst & Gware Bet Fmp 93 srv

I that the bunt the buth at port dease for an apegnan a H Merr Z ntraible f Cynek 923 El 1 737

I ufficiency of labor pai s F KERMAUNER Arch f Gynn 1 1923 c 1 3 9
Sh rten: f abnorm lly lo 1 bo a d lle i tion of na n during I bor ASCHNER A ch f Cyn ek 1023 c v

The u f p tuitary e tract in libor B STEINBERG Im J Ob t & Cyne 9 4 vi 82 [437] Drugs which mod fy uter e ntract on H Vignes

Press m d P r 9 4 XXII

Ansthic pr ed n th cure of 1 b O J

RAPEN Gru 1 9 3 x 6 7

Hypn 1 b r d the ge eral pr tt U

FENNAL Deut he med Wchn hr 9 3 1 34

The pogno s of labor w th flat p 1 SECCEL A h

f Gy k 1923 c 43
Th u a faluse of obtetral freps C Bernelley JObt & Gynac Bit Emp 93 43 [437] The segit autratinf ep JC Hirst I Am M A 10 4 1 1 95 [437] Ch ng f pe e in ide the fetal nt b 1

cavity B CROTHERS Su & Conec & Ob t 9 3 1438 Ut n erupture Pr sop tin c 3 Aldebert and Forevier Bull Soc d bt t d gynce de Par

1923 592 last its n with had o enhal die hpestt

Obt & Cynne 5 P | pe ftheumble! d G HATER M he med W h h 1923 lt. ed White 1923 lt. 3 The coutpotion IT Harris Am JObit &

Gy 4 53 1 Ca fd 1 ery thr gb th pers um A Sc Lien 2 trill f Cy k 9 3 1 64 Thed 1 ry of th ft mng 1 d H Belsa W

mdWhnh 1023 le 5 Tìep fbthl t The p think the Event I of the Cyne Carse st for f th d t 14391 (L dgettpdt medg 93 odgettpdt medg 93 of hn type Inth qe M Je k M J & Medk 93 7 R pot I ce I pot m t m ær e M J Stove N N K I & M d Re 86 יו או Jupo 1439] t 14391

Pu rpe ium and Its Complicati ns

Purpeal n n f th t u th VILE J La t 04 1 6 T tall t tith ka y so p per min to Casts R R 11 dg 0 3 [439]

I m co pol p i th t k po tp i m

kx hg I A y 1 x y bm V J 0 4 50

P erpc | x H Q (pr i D O II

B to V & S J 0 4 0 0 po the so th Deputer the cite procl BERT Lato 4x1 18 Dett for tepti fill 5th p pe GIRTI C d MAJ 94 £ th p

Immun zat g t pt em f ll ni th t d cal perati f f th BOLDT Vied II ald 9 4 lin l ldbuth fth tru H I

I t p tum a d postpartum treptococcus s pticæm a i at apel icor in S A Wolft Am J Ob t & Gynec

10 4 1 07 194 1 97
Puerper I gas bill sifet n W Lehmann Arch
f path A t I has I 193 ceal 1444
(g f th temates complicating puerperal
ep V T Chrisky Surg Genet & Obst 924

The term tof puerperal sep SG Liker J Oh t & Cynze B it I'mp 923 502

Th t eatm nt of puerper li er k link M tssch

The teatm nt of puerporal fe er tl le m thylene
ble H Branz Z ntralbl f Gy k 193 vl 11 4

The t eatment of puerperal ps 5 by 3at en ca e st epto-yat en or taphylo-3 t CONRAD Zent albl f Gyna k 923 d 374 The had eland fity a es fp erpe alfe er treat d

by cu tt ge and c nt s 1 g t GAUTHEIR a d L r Ivre Bull et mem Soc d chir de Pa 1923 l Sg It im tof puerper If e E VIRLLA M nch md Wchnshr 931 175

Newborn

The e bor e c a univerty lop tal LT DATES Nad O S KREBS Am J Obst & Cynec The It fills upwk thinf timam ternt hpt 1 W. L. Crand B. Raer \m J. Obst &(yn 924 73 S cti appa at f Scu appast f m nog m cus fom the n w born G J STREAN C din M As J 1924 xi Thea ofpromt timed trplts FC Nepr so ca opprint tim ditriples F.C. Nerr M.d.Clin N.Am. 94 ii 83 The phy | gell in ght the n born dit tol I a RIESENTELD Am. J. Obst. & Cyn.c. 93 78

Blood p in the bon M. P. Picker d
J. W. C. KNELL Am. J. D. Ch. ld 1924 v 6
C. t. l. def. t. f. the k. of the n whom F. L.

Ap Rand C 1 STEWART Am J D Child 1024 XX Mediat 1 mphy mainth ne bon child f ll

p t u del 3 te cit t n with t m fillat n Audlebert d (41 Bull Soc d obst et d gyn c de P 03 70 60'

le f cto 1 a f tal he \ C IALMER
P Iov So Med Lond 19 4 1 S ct Ob t & (vnæc 8 It rus of the newbra and harm clate craft H s d S Hetter Z traible f G) ak 103

801 It u 1 a d W lal re cti C LINZEN

a ER d F Ivá vi 7 t alb! f Gynaek 9 3 xl 805 tor m S Cs RNA d S Lt BMANN Ict ru

klin Wh h 031
I lyey t kd v dm go le theen cuti
if ts I Walther and I ell ve L!! Soc d bst t 11 ts. 1 WALTER and a third in the p. 0400 mt alm tt. II Rtv E. Zent alld f Gy ack 440 03 1 749

Mis ellaneous P g e in I tetnes J T ALTHAN South M J 10 4 X 3

The trend of m 1 m betetrics. What is the dange? If wean it be change! B M Assessi Am J Obst

A () er 1023 vi 506 The ten log of olet in a and gyne ology W B Hrvi RY Am J Obst & Cyn c 1921 583 [440] Kuntgerograf he pelvim try W I Macket J [440] Olet & Con C Brit Imp out at 536 [441]

M 1 19 4 x 111 29 Sent g lin estigate a n th quest a wh th r the meth nd child fra a b log cal un t Massa & ch f (n ck 1923 c x 100 1 5

GUNLIO-URINARY SURGERY

1 1562

Adrenal kidney and Ureter

Mill n to of the dre ulginis with the ! peture of tile a dee e H K Want. Med Cla (m 1924 1 1 1257 teromegaly soc ted with dr n Itumor H.W Lo c

an I W CRAY Mel J & Re 1024 cur 18 t g one rom of the solre algla d I F Marrie

TOTAL ONS

CATCHONN 1 the suprare at I D KEYSTR and W
MALTING 1 im W A c to 4 l xx 87

I run 1 to beces see 1 ry to phigm f the 1923 XC 683 hand I's tier s Re Isoc melag t 10 3 t 1

Cure f a tropent e l and perm phote i le t (beces) by intra eno i jeti n of m cu och me H H You o B I John H Ik as Hosp Balt 024 R Spire R Assoc melt P anephretic tum

tree to Jx 1 Spr
Research on the ceul ton r alelmanati and
let a of methylaelle F Seneras va d L I Just Brea cov thd miden tdorg no ge to un 1 1923 1 545 Un lat I fused & d) W D Bir ranger Urol &

Cut n Re 924 x 35
Some ra ea m lies (the kt y d rete tl ave
report R I Day S rp C3n c & Ob t 1924 x 11

Durb tion of the liternal pelusa lirete Bit ral po lo ephitus ith triply (J Thomas J Urol

Chro ace termal syndrom thin phroptos colec t my neph pe y c re PER ER J i ol med et 14421 19 3 svi 4 4 20 aphron B H \ten is \m J Roentg n 1

Hadro ephro-1924 XI 25 Hydrourt dhydro phros f qu ter d rv fidng : cases of p Ip I the teru nd bl dd r BRETT TR dIC KURIN Im J Obt & Cyn c

1933 606 Ac e of age tal bl ter l hydr phross F J Ac e of Ry soc Mei Lo d 924 vi Set Stuly D: Child 3 A cae of t maie ic ration fa hyde cph s W (NASH La c t 1024 CC 1 9

The act on of intra nous t 3 ct of od mbc bo at upon the kidneys E & LIFRT Im J W Sc

The d gn si o the dise ses I the kdn y a d th 0 4 cl te H G CREDITZER Urol & C t R 1924 XX11 3

RII is refl a una with i thermy t tme t. R GELENBILL II in Lin II hosche oza zami. I sel et phy W W G E RAITH Cla gow W] 1914 h 8 32

If rm, ne of the placenta a d the orpus lut um and the l poil 1 th corpu 1 teum S Franker od V Forda b ochem Zisch 1923 1 3 9 The niti xic cti f serum again t pl ent l tonn

The nit sic cuit serum again apa ent i Thasa at Arch I Cyna k 193 st 2055

The value f the M in k pe pit to re in the chilest a used a dech less in free e tract in obst t cs. H To there a d L Klarter Zentralbl f Gyn ek 1923

The et loss I th umblest souff! A. Hoents

BCILER W n med W h schr 1913 bun 11 6 176

C tribt t the stay of pelgraphy I M Crn mos Re med 1 wills 1923 xl 1 D cus r lad pl cl s R 1 McC us

Canadia M Le. J 024 2

R l nl pl cle o sfa tors in pper abd m n)
d se R R (Ratian Can d n M A J 1924, x

req ring Les as of the left kid ey du t co t rm al \ Bur GR B H et mem Soc. a t d Par 3 1 648

Ĭι of [m] 1 s tickiles | Sprevt Med] \ trat 9 4 63 Some problem n th 1 gnosis I nephntis W.R. On FR Bost n W & 5 J 9 4 C C 45
Hem reh gi ephnt d cort cat reco et Pillet

I d rol med t chi o 5 x 405

There cas f n escal of b cills f ct on d et arcal stass which a cd by ntest lan t m

In coss J d ol med t h 923 x 1 425 [442]

In the cost J d ol med t h 923 x 1 425 [442]

I) its h Gent Med J hu train 9 4 1 9

A t fe to I the un a y tract—py him L.D. Pr 1 ch 1 1 t 19 4 xh

n the t 1 gy of py 11 1 MARCSO Ob r A derat n [pp] Its J U Rea as Link & ci Re 15

9.4 Ute leffu th proste kid y in the cors fril ff to (24 1 t. Jd. 1 med et ebs 1442 923 X 43 n o-c li d cured de t nd compl ti

I du t med et chie ralt be l R L£ [443] 1 352 Dir Edrults of photmy f tub ul (443)

Idu I med tch 03 x 14 5 1 F F LC Ar h I path Congest lyph htt ld Ltu Phys log cl lca of trupt lbyd 04 fr m ticul 3

ph frm tlcul s U Storto J d t l th h te pl t os fi t med et h edeth 03 1440 Clifns moot nablt 1 11tha. k Sprag Re Associated arrest 93 x 99 kdn y t thhistr f to a durate C E Kdnyt thhatrf BARNETT JU ol 0 4 09 Calcifintin f the 1 ith bit I nephro

prife W C 5 th rad C S

NCE J im W iss 924 h ru 5

I tn th kdn y W L Freyte Bnt l th LAW ENCE A I M J 1924

Cyst nephr lithias's report of case with roent e o eraph c demo stration of d sint grat on of stone by alkalinization A J CROVELL Sug Cynec & Obst 024 XXXVI 1 87

Bl teral neph 1 th asis pe ation u der loc 1 anæs
thes A E HERTZLER Surg Cln N Am 9 3 11
[443] 1513 ANDRÉ Edresults of one at n for r n l alculus

Jd r ! med et chi 1923 11 4 9 [443] Two case reports of ric rent calculu A II BLAKE

Resect on of the kid ey in neph I this is H II

OUNG Surg Gynec & Obt 024 txx 07

Unusual renal tum s Sir W I DF C WHEFLER

In h J M Sc 1924 Am lign nt tumo of the k dney-m I gnant hyper cph m o perithel ma? J B Digum J P th &

Btnl 1924 Xv n 1 4

Malign tp pill m of the enal pel is ssociat d w th alcul G Hadriero Brit J Surg 19 4 1 583

Renal hamo h ge of u ce ta n etiology W PETERS calcul Dutsche Zt chr f Chr 9 3 clx xu 73
Postoperat r nal hæm r hage A Jeanu Ztschr f

urol Chi 1923 xi 38

Thee lutionary h tory of renal su ge y and f temporal bin su gery J L Firith Bntl Med Ch J

10 4 X 11

S gical anat my f the r. f the kid y Perir Duraillis and Flandrin B ll et mem Soc nat d 10 3 X 635

The po ts of e t and the cours f the post bran he of the spin l perve in the e f the l mba for n ph ct my BOPPE d BROLET Bull t

mem Sc nat de P 9 3 3 4443
Ac se fe ngen tal lateral dilat t n of th u t e ding fatally F J Poyrrov P R y Soc M d
Lond 9 4 Sct St dy D s Ch!l 3

Primary ca cinoma f the ter w th n t fac and ar new I the I terat re H L KRETSCHMER S g

Gyn c & Obt 94 v 1 47
Perman t blate al 1 ter tomy J Diverger I de méd d B deau 923 c 83 [444]

Bladder Urethra and Penis

Eti l gy of e strophy f the bladder C E vov G

DERN 1 ch S g 19 4 61 The nteru eteral b H BLA c J du 1 mél et 1923 X 74 The tingo surg lly n de d its p th l gy e m thod fdiag oss a dit p rat m gement L M WARSON J M M M S o 3 L M 758 445 Stude th t a d bild w th p 1 1 fc. 14451

r rgurg tat of the 1 ontent R C GRIVES
dLVI DAVIDOFF JU 1 9 3 8
ke cal d rt cula Go zako i po oso v PEDRO G
LEQUERICA I e méd d S II 033 lu 3
ke cal dett I Inguirro SA-CRIEZ Re esp 6 14451

d cirug 1923 49 The c ses of ret t G PRACTORIUS Zt h f c s f bladd di t la PRACTORIUS Zt h f 1 Ch 9 3 1 Ad rm d y t f the pel ct t a 46 aft rf le d erte lum f th blaid A Br \ Zt h f

a erc. com.

1 Ich 9 3 58
Etr ce of by sq trum t the blds
Etr ce of by sq trum t the blds
Etr ce of by sq trum

1 th trum t th bidi Cute ittsofu It lgy pt ftb

I J CREENE GER S D MANHEIM & d M & GREEN BE GER Urol & C t R 94 xx 34

Ves cal sypl 1s M Aranda Med Ibe 1924 vm S A ew proced for perform g hth 1 p y A I GOLDSTEIN and J F LUIZ J Am M As 1923 L 1

An analytic 1 study of 100 cases of select des cal neck bstruct ons ope ted by the a thr cautery p nch

J R CALLE and J H SANFORD J U 1 924 x 145

Experie ces v th epith 1 al tumors of th un ary blad der T Joseph and O A Schwarz Ztschr f U ol Chr 923 xiii

The type fhgh oltage roentgen theraps in th t tm t of carci ma f the bladder C A WATERS Am I R entgenol 1024 x 0

The it eatment further is to Sea Cranville Mac

GORAN Rev méd d Se illa 023 xl 1 30 Ob tructions f the potenor urethally congenit left repot of a center A. H. Hanshan Bost n. M.

& S J 924 etc 1 T be culous ca t O Buzzi Re 1 m/d ag t 923 TXT 1 00

Genital Organs

T be culous bsc s f the pro t te E CASTANO Re Asoc méd ag t 0 3 In w conc pt n of protted s Re méd d S lla 9 3 l 0 Ge l p sples 1 ol ed in the prost tic problem

J H CUNNINGHAM Bo ton M & S J 924 cxc 6
An ea ly ca e f carcinoma of the p t t assoc t t assoc ated w th ben on hypertrophy E C SHAW I U of 1024

Pg 1 nm thes u gery of the p stat gland d bl dder W R MEFDER J La cet 924 th r Per e l p ostatectomy by a mod 6 d techn que J R u gery of the p stat gland Di LON J Am M Ass 924 L 1 287

Hæm r hag f ll wing p ostate t my F LEGLEU

P g de la clin Madrid 10 4 85 c bsc ss and cclu saltrmat n fp state

And sait rmi at a 1p state uses and cetu s n f the bl dde fiter remo 1 of the p ostate H Boems chats Zt h f urol Ch 227 xxx 63 Th t tm nt of hum n tube lost 1 ch on c u spe ifi ep d dym tis E Sch Arz A ch f klin Cl 021 CX 11 474

las st my frs munal esicults with a des ption of a new and mp edt chinq for the peration F Kidd I t m t J Med & S g o 4 xx v I The intern l s c etip of the t st K M WALKER Lact 10 4 cc 16

ém Soc t de P 9 3 xc 677 T teul rg afts an m l a d m m n P MALCLAIRE

A ch d mal d re set d g sgt ito ina s 1923 1. pe ime tal in estigat 14461

Legime tal in estigat fith ble of the Leging sem if s and Sert leells a d the ffects of te teul r t plintat M Tiorex Indocrinology 1924 A a c of c ch d m w th respons t te ticul

plattn CE NX E doen lgv 924 1 16 The perat repost of th te t in the sc ot m crypt hid m I BRISKI Zt hr f u ol Ch

Mign t tum s f th test de m child e A t LUTIM NV dT L GI SON An S g 923 km 1 [446] The rac cal operation for hydrocel C. W. Bethewer Let B.C. t. Rev. 1924 axis 15 A ample reef 1 four for novel W. Krat 2 Z. tr. 11 f. Chir. 1923 f. 63 Ger tal't bertulod in m. let. K. Privacker D. tach 745ch f. Chr. 1921 clax 130

Miscellaneous

typec I ce ut 180 a ne lected feel II W II WAITITE SOURCH VI JOSHA 1815 N. W. F. VARIER FOR THE REAL OF THE REAL O

The cult: f the go ococcu lits rel t n to contemps and t the diagnosis f the cur fg r hee the all J B Ciscum J ur! med et chi 9 4 z if i

The present status (vacces and sereth rapy) get. H. Merry and E. Disar. J. Luced mid et. Chir of 31 xis 390 (ab) as g. al. d. and in the state of the country and the state of the state of

SURGERY OF THE BOXES JOINTS MUSCLES LENDONS

A [IP g] ! & J tS rg 4 53

Conditi ns of the Bones Joints Muscl s

I title I the pock of bof mat k lor kl Who he of 3 1798 kg i fitted physes III the blit for recting the blitch refer the logit, the lefth pendium I kinne a lile in I he 1913 trave framt litil ces of physels with HIF Detl Auch f CI 1933 cl 195 Start experiment from the forcal tude to raise to death McClim re hi dt R Sun de tur nan Bill imem Soc 1 024 1 c t 21 et CRorrere R dethp 923 # 55₁₃ cysts of all c ce | Sf tour I esse med Pa 1024 tx 62 crinight existenst t fbrown 1 3 u k pe 11 C Notif repk dorthp 1914 39
The trif out myshin & JOer re
Calif Sete J M 1921 5 3 4 1 t becker

Retrict the replacement of the claration of the control of the claration of the control of the claration of the control Novil Fank denhp 1914 133 a 19 3 x 495 V thr patl s a dri fihtley d gner 1 bret n ties H B Innin ad C Roses H CK J 1m 11 1ss 1924 l x 27

Pit 1 jmm to 1 se ! ethnts I Henry D A h f hl CF 19 5 514
C h ! rthrit W A Strairgo and B Straiges Arm M M th 9 4 1 695 Syphitic thrits a liserolg linest to A. lo mix Deutsch Ztub I t | rat th 193cl Accellite thrat OHD nor South M& 1411 0 At t treetm t I p thos I Wolliers
D ts i m i W h h 10 j l 93
Ch that i th d it soc t l thepinom səl ral nil per rej t fice cases f un l t al mirom \ h leury B !! Jens pl Hosp II It 94 6 Isch mem sel co tra t 1 Lic ir Ligeb d Ch Other 923 65 Sy ten f th tl to-ox | t | j nt a 1 th and the state of t OCEUZ Aca filte l pt bstpm k B f nth p Ch o 3 1 445 Co z t l t ft! 1 1 I 12 Ztsch 1 1 D curr Re thp 03 0 Cgtlh 1 cap! with wh his Ided a fbre allis DMG Ed brigh M J s dirat 9 4 B

IP g l !! W ! B row ! B

h th

b JSD s JB &I tS L 04

Fo condultes of the humerus E JUNGMANN L gebn d Chir u O thop 1923 vi 155
Thereulo encondyl tis M P Schieller M d Kl 10 1 1225

Congent I b ence of the ulna rad s tib a a d fibula E RABAUD a d A HOVELACQUE Rev d rthop 10 4 Bulateral c me t labsence of the ulna L GRIMALLY

and A LPITALBRA Bull et mém Soc a t de Pa 1023 XCI 738 Radius cu atus-M delung Dupl y deform ty

Its I Ann tld chr g24 11 40 A cas of bilt al dengentals per radi lar

syno tos: A TRISTANT Re dorthop 923 xx 489
Sp ta eo later pt of te don of th 1 gext s ts f th th mb a ch acterite i jury as e ted with fact r f th adu r lu tin f the seminar o d

Web schr 93 li 977 Pananti m M Zur Vertii Brln Spiger 93 Aspenaler tf smbcke ditons JL PORTER and I LEWIN J Am M As 923 l v 3 1449 Abse ce of the s cr m d f the lat t o lumb estebræ P Desrosses d'A Moucher R do th p 61

There I is of the o c yg \ C David J Am M Ass 9 4 ltxxu 2 B and J teause of lo bakpas PBO on Bo to M&SJ 923 ct xix 50 Back che C Froth Nicham Bo ton M&SJ 93

clt 1x 063 Choic ntuberul s that ftheh; nthe you g

or gro the tes FR ELICH Le de ch 19 3 [450] 473 Osteo h drt d fo mans ju enilis 1 H G VIN

g G c & Obt q 4 xxx 58 Some ob atto n t 1 a a d
to dnt A GLILLEMIN R d rth p 10 4
Be ign b ne cyst (o teitis fibro a)—ac t b la cho dnt upper d f the f mu tochatts nck r head J C Broodcood J Rad of 9 4 3 Th quistin f nearthroif matonith hpjt S Korman Ze t lbl f chi 923 1 6 Si cal cog nital df mit s f the 1 mbs I DE

Giersa Rif marmed 9 4 xl 49
At phic p of l limb R Liece Pe Par 924 x 26 Kock knea 0 0000 mm.

M&S J 941 38

epa 1 filte q d epf m th pat lla I
Z D K J Ble & J t S 5 94 5 5

Common of the c mm n 1 filt k e j t H R Lock knead bowleg H T Sixto

Dome of the cmm n | th k e j t H R
District T 3 St 1 J M 93 44 CLA ov
TasSt 1 J M 93 1 446
Hyd p tth kne j t tth mbo; the rul
Tas Farkinger W n kin Web h 93

Raht geu algum thod no f te tin fthe L D Harve ad CR a ne bige d chie 93 A wi tero et t f Schl tt dse se 1 VICE.

Achia co-belg de ch 93 60 A simple d vi bl d p-fortbra WIG

J Am MI \ 941 1 30

P bd til f the foot Our En I J

thp 924 x17

L 11 of the 1 g1 1 1 h f th h m IL I G LAND

D J Morro JB & Jint 5 & 94 56 [450]

Arch supports A COTTLIER I Am M As 19 4 Hollo foot M LAROYENNE Re dorthop 1923 X T 512 The etiology and treatment of cl w foot G P Mittis

J B e& Joi t S g 924 1 142 Ap physits of th less a cl ical repo t ALLISON J B ne & J t t S rg 1924 1 9 [451]

A cas f th fbros c m f the a ten r ubachilles

bursa T HUENERMAN Deut ch Zt chr f Chr 923 d u 40

Surgery of the Bones Joints Muscles Tendons Etc.

Sf rules the sit f rth pedic of t my SCH NZ Ze tralbl f Chu o 3 l H NZ Ze tralbl f Cha 93 l 67 T m t and bone sugy 1 l NAUGHAN J

a t 9 4 lv 49 S bp n t l re ectio of l bone in o teomyel tis a b fth method ft in t tharep it fe c H L Beye S g Gy c & Obst 923 heς 73

D on the ope to et c tme t of st th tis R C LLM LIE I J \ R ALL H I LATT d Others B t M J 923 1 2 6 C em t ati nof the a m Coullaum R dorth p

I in of the elbo P A STONEY I h I M Sc 9 4

94 30 $\lambda \in d_{\delta}t$ cm srl perte the ftreating ng nit isyndectyl λD KADLLESCO R dorth p022 I de t frinternal splinting f r internal splinting f the sp

M NESO S g (ynec & Obt 924 1 1 2 A epot f faity 1 c ses of sc l 1 tr ted by the f 1 n op ti R A Hibbs J loe & J t Su g 9 4 3 [451]
V pr edure for re ect of th hp V Sixens PERPISA DE R DE Z SARASOLA P DO de la el Mad 1d

pl ttnofthet f sciæ fem is in c ses of î_{ls} f the qualn ep cl N DUNN and I W

p i) I the quarter is a Dessamal to Straat But I S is, togs is 333 O d c p j b f ct nallic cd by t n fee ce [the fre I the all in I mu d s W KATEENSTEIN Ze talbif Ch 1933 | 6 tt of the k e j t t by me o fa b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673 of a b e peg J Hsss Zentralbif Cl 1933 | 673

Apl f th st ight lmb in the teat e tof t th lg lc dt fth kne j t C \ PARKER J Lanct 19 4 xl 35 inct 194 xl 35 Impl m thod fo the op rat crection fac

ach tic curvatu e f the l g II STRAUSZ /e t albl f ci 9 3 1 69 Flice peat with a lkeff psilten cross of h ler u t ti resit of eign radiation n Archfli Ch 93c 1 65 th leru t Ti Archful Ch 03c 165
The tetm tfc gitldefmts fine footing
fts E CIBRARIO I dgnc tet pulate m ! gen 9 3 x 334 Ti 1 1 duct of 1 b foot 1 Scilletze 7tschr i th p Ch 1923 1 406

Arth odes fith foot by m n of at g leet my f I In lby total part Irempla tat n fth a tag lu SC et z I I I R m o 4 x ee ch r A mod fatt f the pertite te tim t f h ll x

lg I WYM R De tsch Ztsch f Ch 923 cl tx

In peral of othe fortreatme tolcong naticular The il treatm at in peatr a enopla us a li 1261

Fracti res and Dislocations

Fractures in chillen C F Tikenburg I Am M 1924 1 x 28

Re nt cha ges in f acture treatm nt 31 St CLAIR 14521 But M J 10 3 if or? [452]
The r tm nt itractures from a n fu t i tandpo nt W RYER'S J Ik ned] i thurg to 4 i 188 [452] Fract res fr m an oper ti e sta is t W I E 885

La ret 1924 ce 1 111

The tree tment of fractual by orthoged cam thoris S W Brosst Avanti I La pour v 1 ch forg 10 t 1452) 5 611

of tre tment i lk wing compo nd fr ctures The t scurring in co life h J Look J Bo & J at Surg 1074 | 95 of (the The incline the pheral s room the bel

remart cel n soffract er I R pier ten it l de chir tory i 1054 The treatm rt I ununsted fractu es I M S iss

I t m t J Med & Sarg to 4 x vl 13 The tudy and t raim nt ifr et eroft mi bon alth spe ma h. Dices r I de med d B.rl a 14531

Wreethin t the hulder girdl W BLOCK Welnett 1913 1 2036 ke ult of open meration I ran 11 d 1 xat n of the sho life Actual Bill t mem boc nat d hir

1914 1 2 At eatm tfrgree t kfact res if a be t of it I viel W. A Frence | La t 924 1 45 Fractur of th 1 w rent r base f the ratiu | L

WHEN VOI a MAS J 1924 It LIS I locate of the prim bene J H M mix Bnt J Kai I 19 4 2 1 17 Erat : f the pail em ben Jras and Seleard

p v d sth p 1921 x 4.7 Co scale etr inn at 1 i locatin f th emit r loca i Claim v I H R Scit z Z at H f Ch . 1 t reso 0 3 1 1396 Cloi al n tero ac e f fractur i pel 1 comil at 1 by e trapedt e t ruptu e f th bi fir M M ast

JR y imy i Corps rose all con a si B te ale gentie x all tuon i all a g til lest nofth by R South Rand R

LINETT JAM W 1 941 islald lead to the potential of the potent of off g islald lead to the literature of the property of the literature of 33 ď part I paraly is f the adds t r musel f th rr

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood le sels

II K Mc telrhypetn nad hypoten Do AH Med Ires 1924 n es • d shock I b ke Capil ty diatation utc

kl W has hr 1023 1 725
Anc rism f Rowing go h 1 wo d k Wen vs 1
W st k Chripog an blast 29 3 1 3 1456 1456] are not not font A.S. Payanormoune Rev. d. thon in a ž 1 S Oreman e to steem fold once notal de locat of of the hin I Lorevier Frechn d Chr u Orthon tott m

Fract re-of the f mur a cl cal study R. H. Russens. Brit] ' r 1924 xi 401

As my! method I make g the head of the fem and its at 1 cats in un ting the head direck ath a seres A Cieso are Lynch 1923 xx 43 (454)
The factle I can caty fith I we limb foll ware fra tue 1th neck thelm r f to satato Pan a

Rome 19 4 xxx sez char 2 fract tr of th lesser truch t r f M xxx and I scuttraire ich fanco-tel s de chur tott ant

The tealer t I comprend for tures I the femur M Ba ros 1 sist (1 ylab roza u 131 M nm an en il te mon t the treatment of fract res of thei werestrematics I ount Lische fa reil Fortiald 1011 15 610

Amt I t ry care f fr ctures f the leg A Resto in ital dich 1924 14 62 D ; ptr ne fra t re Farier Cen ta 5 ARINTO ni there ii il t mere bor nat dechr o 4 1, 9

I day hyseal fra t res of the leg R. Ost synth Butter nd t Mass Titl. J d chi 1913 Et 19 at the t ru met tareal y nt] B Outw 11 loc t

R syrrr Brt M I som i te Lu I m fth m tat real brads. M Pte tet Parm 93 1 446

I the tube ele of the fifth meta I racture from a uf t real I to ther and Ben un Hull et mem bor n L de la pas c cd l reg i l ght cases lee ere crusling fract res el the case l ll L s ren J lion & J unt S rg 94 the or e l

I tr fth be ! Jibrar and Briger B L. Fatue I the os trog etrum O kt ITS B tr t kin Chi 93 ct 2 ti An wrist knule H B l mms J Am VI 10 4 1 13 3

Orth pedics in General

Tw nts se ond port i progress; orthoped as rgery

h B Occas N ture R Sutter H C Low and It p bl molite appl Siz R Johns Praction tin think 94

re i evo truct and orthopeds surgery-Ruform m d o gentald! mtes L DE (a ra 93

I im ni f nfa til p lys afte th acut 1 h 1

mon ipitirciph logy fateno-nm CFRox RadijBrana inch Th d gnos b W r I 4 4 The quent t 1 rd Bt akl Chat 93 1 II ¥ 1 11 1

I uphla phibu B LLACAMBA he med lÙ ga ó 4

Experiment land clinical stud of varices R KLAPP A ch f klin Chir 1923 C XVII 500

If it ple d stant enous the mboses in thrombophleb tis of th I teral sinus faural rigi BARRAUD Arch tern t d laryppol 1924 XX 55 [456]
Ca ern u ang oma f the then r eminenc Solicago B Il et mem Soc a at de Par 1923 cm 647

A new method of t t ng cuta angiom with miledo H Frances Ze tralbi f Chr 10 3 l

Yn formation in the lat leer icalr g n L Sussic

Duts he Ztschr f Chi 19 3 cl 1 281

The tre tment of varies by 1 tr er us nje ti f
sod um carbon te M GARCI DOMINGUEZ Re de m d

ye ug Caracas 923 vii 49
I ci ion f re posing the blood sel and e e of the
a ill particul rly with phlegmon L DRUENER Deut sch Ztschr f Chr 923 cl vvi SI

'xl osis f the p lmonary arte y F C ARRILLAGA Sem méd 924 X 1 60

sual aneuri m f the a t c arch with c mp es n and thrombo is of the superior enaca a D I acr. R segna i ternaz d cha e terap 9 4 v Mesentenc ascular occlusi n port of the ases n

chiden L IBANK Am J S g 93 xx 14561 The mboss a dembol m s lt g i om a E S Jupp and A J Scholl J Am M A alt mr 10 4

Art nal mb h m of the l ml sa dits surg alt tment L SPACERT Rev de chit Par 0 3 1 6 3 14571

Rlood and Tran fusion Ricod go p ng by isohæmolysis P Mino Rf m Il maybloodg ps tth ? L Larres Plcl Rome 1924 xx sc p t 75
Expen nce ith blood tra fus o H PLOERCKES V d Klin 1923 1049 On mm otr sf s L COLFBROOK and E Some R La cet 9 2 cc 34 394 [457]
The comp 1 ephago yricp p 1 e of the df nt blood g up F C Marrier La cet
924 cc 1 26 14571 m n med 1924 36

B! od transfu ion in surgery D I MAOUIRE I So th Caroli M Ass 19 4 7 9

The p ent statu I blood tra fusion H K WAL
LACE M d Herald 19 4 din 16

Blood t n fusion d re inf n in gynecology B Zrusermany Deutsche med Wch chr 023 xliv

255 Tis Tis fibringen the treatment fluen rrhage CAMILES Conn ti J M 924 iv 54
The poc of co gulat n C Macales Arch f kln

Chir 10 3 xv 6 Chir 19 3 xv 0

Harmoly d blood a non pecific st mulati g ag t

R ZIMMERMANN Z t lbl f (yn ek 9 3 ! 1504

The q et n reg d g the hereditary ch racte f

harmoph l F Levz D ut ch Zischr f Chr 19 3

cl n 84

tea of p rputa ham rrhagica—transmis on of ho e f ab orpt n H C BERGER Med Clin \ Am 1024

Prp a hæm h gica differential diagno i treat Prp a herm h gica d dierentuat diagno i treat ment d presentat of case C Mittikes and H C H krist. Texas St te J M 1924 xx 504 Bl od ch ng d to roentg n ani radium act on Ris r V ch f Gynack 19.3 cx 181 205 Roentge r d ation and sed m t to of blood cells

VON MILULICZ RAPECKI Arch f Cyn ek 1023 c x 87 06 The blood changs a aphylactic shock 1 the dog HR DFAN adR I WEBS JP the Bct n 1 1924

The m hansm of an phyl ctic leuc pen a 1 digs R 1 WEBB J P th & Bacter 1 19 4 x 1 70

Lymph Vessels and Glands

The tree tment f t b reulous gland T T NEVE 9 3 C 362 dise se I S MILNE Med Cl tit Hodgk 94 1 083 The h dlo

The k dlo pe to Pays lymph d (Schmot Zentalbl f Chu 0 3 1 634 Emphys ma of th mesenten lymph gla d in inf t C V RNONT Sperim t 1 1923 1 170 [458]

SURGICAL TECHNIQUE

[460]

Operati e Surge y and T cl nique Postoperati e Treatment

Sem n med 1024

Brn ad the tre tm nt L Myn Bru lles méd 1924 1 10 sad \ Ob no d n into lest mat gith the life to find of scall blood of a potton of Brown left right of the life right The transfer of the transfer o

It is control to ope at enk WS I EMON d H J MOERSCH 1 ch I t Med 1924 T 118 F therexpers c thoperat of gunh tw d th ro trenight \ Liseisn ac \r h f kho Chur 923 CXT 550 A t o-loop sutue J CRAIG Brit M J 1924

Rem v gdepster FL Summ JAm MAs

924 lixx of Smple method f omb it g post perati. mit g Bon r Ze trabb f Ch. 19 3 1 61;

In r the to f r le n n after operat n 1 H. T. Ch. Lixvil Ch. 0 2 2 : 27

H. T. Ch. Lixvil Ch. 0 2 2 : 27

Fig. 10 2 1 2 : 27

Fig. 10 2 1 2 : 27

Fig. 10 2 1 2 : 27

Fig. 10 2 : 27

Fig. 2 ostet ped t e med gen 19 3 xviii 276

type of m thress part cult by dinted for u.e in cases of rect I incontin no I I Mo tagty Sure (yn c & Obst 10 4 trv: 117 [460]

Antiseptic Surgery Treatment of Wounds and Infactions

The select e bact ne tate a ton of get ne of t d oth relyes J W Chiracima J U 1 1924 1 1

The tel t n f local imm teat n to g eral im mun to mod in t nden es to expl n i fect and im m nits by p cess of l cal re cis local acci t n first tre Pesse med far 1923 to t [460] TH 3 [460] Iodo-eth r dress g DELANCRE Pru ll med to a 4 556

Fu neulos s (the nose T I Toras Wise in M 1024 XX 377 Th treatment fluru clas I FRANKE Med kin

1925 i 1549 Th tre tment I post v proge e pros in the face by inci n a d i j tin of the p tent blood Disco one if he im tofacute rim in factions of the hand D I D Wr KIF C M LACE I D SATE C T MILLELLY and the s lint M I 923 105

HALL Aut hem therapy of ery pel ... Wen klis Welnsch ogg ax i 6 Scute teta us t ated by larg d e of a tit ta

rum and lum n 1 M RIVALOR CUT RA R med d U gu y 19 4 xv 1 11 Tto us I CRAFFAG tho and J M Davidso
Orlea s M & S J 924 1 331
Ac e fitanu with r ry D RALTHALL

TV D RACTUALL Med N Am 1924 11 1191

Anæsthesia

Blood p ess e s the enterior of saf ty in a rethesa G B own M d J A tr ia 1924 1 53 come practical po to 1 the dmin t at on of ether H P FARRIE Clasgow M J 9, 4 h 5 xix 3

Ge r langesthes a an i the angesth to t R L CHARLES

Ce i addressees and the amend us to be considered.

Cl ad Med 94 xi 3

Fthyl neop gen amenth us A B Lyczentepr and
D Lexis J Am VI vs 193 fz. 85; (663;
General matthes aty not a couplet of hill
t F Paper I Lizzer and G Riorx J d med
de B d ur 94 cl 39

Anarth six in min gry RE WORCS I We some State VI As Q 4 xxi 6 An aut mat c pre u e inj ct n appa atus for

local a # thes B Douglas I lab & Cl 924 1 225 In trume t num f r loc langethese W R Myrnese

An Sung 1941 u 14
Some g e al effects f local navehet 3 adm n er d
as in to illecto y F L Ross An Ot 1 Rhin 1.8 Latyngol 923 xxx 1 29 nd n fges in surgery JT Syn g 1 c aesth CWATHMEY & d G CHWARTZ Med I & I c

Mem geal react s see ndary t pinal an thesia V SI ESCE Gy ec bst 0 3 1 5 Sacral angesthe a I C BRE. VER Ann Surg to a

Su gle 1 Instruments and Apparatus

Ar wakin f ir as C P Campe But M I to a

PHYSICO-CIII MICAL METHODS IN SURGERY

Ro nteenology

fine tay or m g boxes to roe tgen

I'e nt day \ ray and rad mth rapy C I IIE SALE Clima St t J M 924 xx 1 6 The e n cs i down try i rad therapy C FAILLA and L H Quinay Am J Roe ig ol 19 1 2

lie ca e I the act on f th \rays it Ramma ry of rad um upon l ng cell I Dessure I Rad of 1 1 41 The influence of onten rays a like sent li AMERICA d G LOLITZ R Arch I make In 1 923

Do the roe igen rays he a local og n I i n? L Serre St ahl ntherapi 9/3 x 46 [465]
Experimental in est tat 5 r garding the at n of the ro ig r ys M ris treh f Gy ek 1923

cxx 93 206
If i g cal studes i th eff ct of rentg n r 33 n

Herefore such as the content of the such as the content of the such as the suc

The occurrence of the best to be not ble types of be mailty am ng the d endant f \ rayed mice C f Little ad HJB cc Am J Roc tr of 93 075 (465). Het great tudes trade to muc thead with t TORLARNDER A ch f Gyn ck o 3 Cx 2.3 200 06

Roc tgen 1 gs path 1 gs confe en P and A S NARTHY J Rad I 0 3 416 P M HICKEY \may nth nufm ffun WD Km z BE JRd 1 94

Kentg yit cat I Bacter is a fithe blood stre m nil ned by ta d tru tion i the recal epti lum ith mall niet II The recalentium the malintet in the mile off tas ment in traverposs agen at any givel III The path of be mothard yaith long yam. In I thing yam in I thing dacte at uct pool ed by radit una nyy finnasis S.L. Was by d.C. II White E. I Expe. Ved. 19_3 tx estgat ranth fit fthe V y ponth m tabol m of lum chind dit rist t enten t I V ray t zicati Il Sie u v Strahlen

therapy 1923 x 458 (466) I t tin agai t adat n A U Drsj p 18 146 Rdoley so y as I filth remak up t t mast with p refere ce to high It go A Softand R d 1 by 9 4

Chicalani p nmental contrib t n t our knowledge of rad t n miunes I DEL BLONG L Actin terapia 10 3 345

Roe tg n ray ulc rs e pe sally their su gical tre time t PELS LELSDE Med Kl 923 xx 118t [467] Ulc rating epitheli l n pl m d to radiation f r ut un hemorrhage D Ctorpano Ri d g ec ostet pelat e med gen 19 3 x m 252 Roe igen ar in ma t the fem l Brann Zi chr f

Geb tt h u Cynaek 1923 It v 1 445 [46]
The causes of u fa orable result n th r c tg t
ment f ne gro th P Stppet and G JAECKEL Mu t t

th med Whn chr 923 lex 119 The cancer problem from the rad ol gi al sta dpoint H S mirrz Rad lowy 924 i 7

Expe ie ces with \(\text{T} \) r \(\text{treatment} \) f mal gi in t m is

in the Schmieden el n HI HOLFFLDER Strahlenthe an e

The blgs fralation treatment of cance OPITZ Ach f Gyn ek 1923 e v 75 206 Strahlenthe ap e

19 1 x 75 The ligy adm thod of X ray te tm nt of s g c l Ixp imental st d s o d ti n t catme t f ca

representatist d so d in teatment i ca ca F hor Achf Cynek 193 coo R lat treatment fc ce of the skin G A kost Strahl the 193 8 Post it deep any tryy R E Frice [468]

Th ap G 943s x1 [468]
Cmp tt ff cts f deep roentgen ay th py 1
l w 1 r) hgh lt g ap elimin ry po t J T
Case J tm M ts 194 ts 8

Radium

Radi m ndre tgenrysa dff e t gentsins pe feral and deep therapy A Bacuru Am J Roentgenol

1024 33 13 The tory of radium L NEUVILT Trained Nur e & H p Re 0 4 ltm 7

a leare fradum E H Ourses T ed e&H p I 194 lt Recent de el pments ad m the py I I Sturso

Illinois M J 1923 xli 3 7 [46] Increa ed u efulness of ad m em ation from co b nation ath fat J STRAS URGER Deut che m d

On the general effects of exposure t ralum on m t b h m and t mor growth in the rat and the pelefficts the tet and the ptutary gland J C Morreau d W CRAMER Q art J Exper Phy ol 10 3 x11

The la is in experimental rath I gv f r dium therapy f mal mant d ea e k H PARRY B it I Ralol 024

Miscellaneous

The u a dab se of physical treatment J B Mev [469] Light-tatn thisk ad therape to value Suggald the my C Goossany Cinc n at I M 04 55

MISCELLANEOUS

f mult neous I I pment f coma I
m tl m person II Rousen Achip th
Autu I hys l 03 cl 9
C c del yinit u g lt tme t C C Sixino's C c del yin it ug it tme t C SIRMONS
dEM DYLAND B t n M & S J 94 cxc 15
New method f c cr treatm nt KLPFFRBERG
I h m d Wch hr 923 l 6 The m d al t tm nt f c cer L D BITKIES C 94 44 An w b 1 m 1 and chem th rape tem thodf the t tm t f can er I WER FR Str blenth p 1923

843 Litefat Th frad m lldlsbetanes upon mbry c I neopl to cll a dit impotant th dg i a ltrc tm t f a cer \ korzaserr and I Weyl I emed Par 1923 x 025 [471]
C gery g ral drat F D Twy I V son St te VI L id rat F D Twy High It go treatment a sene I sa com W 5 L WRE CE \m J Roe tg 1 94 50

General Bacte lal Mycotic and Protozoan Infections

Man feet to I focal of t s in the espirat ry reult r) ary a d g tro-ntest n l jet m. [
c) a d childhood F C Roppa M esota Med

9.4 7
An win thou f d trin gth irul or f teptococi C Rtr II Ahf C n k to 3 to 5
Th rape to esearch g r lepto i feet 4
Fritzs Mayor M h n med W lestra 10,3 lr

Clinical Entitle - General Phy lological Condit ons

R marks o th c od agn of turn rs II 5 HS Str hl th ap trhith ap 93 795 Othe gnf f sot sot p fttvsbt m) I mat u tum rs S C Dyke J I th & B t Smepnmlad stalap t of malg tg th

H WARFFI ED C C 94
Ind th 1 ma L H WILLIAMS US N 1 B II 19 4 E 39 I ca cer he ditary d I AFBLY C Morph I gy a dein PRICE C 94
The thing doubt i perimett deto Petrocharner Sthleth p 93 36 Ř r

I mem tlener pod tn from t m tich Ziech f h b f rech g m cact ec j ty f g m ca M G /tecl f k b f rech 9 3 pe m tl IN TAL O tumor from t n f m t MATA Dut h m d W h ct Some a pe ts f th p llm R k ` ۱m J Roentg n 1 19 4 14711

Pornet of t rs . W C M (Clin Ved 04 Carnd mm ty W.C. t St 11 throp 1923 x 83 The f m ! | t l pe

S 11 ъ 1 Thee dil re t ш parafi L t

RESCR A hipth A t Ih < 1 93 A intra e a smethal f the rly diagnost f t be culos i the gun pg S A Le risson Illinos VI 1923 xl 365
Sport trichosis II R I cerester Am J M Se 1924 cl cd G inders i man I H Willia issa d R C Sytterales U S Naval M Bull 194 x 41

Ductless Glands

Intern I secret h V Weil. Brln Spn ; r 1923
He e venne org a pont f v w B F kn s
nux I born olyg 9 4 1 9
Th roll Theenlo es the with and nutritio I
tld n H (curstin Wed) & lee 102 x e 1 29
Th endocriegt d hd imm nity M Uz v Med

J&R 924 C 15 (not in nen loenne vi vpo nt J N
Balmury Med J&kec 94 ex x 27
Th nai tv tal a de loen ed tutb ne E
Sowpry MijJ&R c 194 ex x 3.

Towner at 1 Jane 19, 4 exter 3.

The ndo run log alapect of dem tology S Feldung Med J & kee 9,4 ex 35.

Ixperimental stgaten with all effigue ther app. B Joyang. Medit f Geburth w Cynaek 19,3

Ixt 38
Ilu glan I I therapy I C Coss M d J & R

Ilu giani I r therapy I C Command A d J & K
19 4 c 1 6
Ther peut c detetes on ned crin the call is a th
lit m c C as th b mologue f adr nun C D DE M
Syjots Med J & Ke 924

Chir cal escarch egarding the action I pituitary e tract M STEPHENOVITCH Presse raid P 19 4 xxii 76

Surgical Pathology and Diagnosis

I) g ost e rrors d closed by bs muth pat injections F C B ck R d I gy 1924 n 4

Experimental Surg ry

Be fisder ed by military med ise nee from a mal experim stat on E G fitters MIS geo 1944

Hospitals Med cal Education and Hist cy I fice tilbor tory servic H 1 Brazer and F H Rich and J in M As 94 ix nu 213 Hospital cost pat a prese t H Surm J Am M 15 941 tun to Hospital t d rd at d g 93 M T Mac LATEN Mod m Hosp 9,4 u 6

I ozes I th Am r an Hospital Associ t ding 1923 VR WARNER Word in Hosp 924 xm 13

Medical Jurisprudence

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN Chicago
SIR BERKELEY MOYNIHAN KCMG CB Leeds
PAUL LECENE Paris

SUMNER L. KOCH Abstract Editor

DEPARTMENT EDITORS

DEAN D LEWIS Gen 1 Su g ry CHARLES B REED Gyn cology and Obstet LOUIS E SCHMIDT G n to U in ry Su g y PHILIP LEWIN O thop d c Surg ry ADOLPH HARTUNG Ro ntgenology JAMES P FITZGERALD Surg ry of th Ey FRANK J NOVAK J Surg ry of the E No nd Th o t

CARL A HEDBLOM Ch t Surg ry

CONTENTS

1	Index of Abstracts of Current Literature	11
11	Authors	13
Ш	Editor s Comment	x
IV	Abstracts of Current Literature	495 564
v	Bibliography of Current Literature	565 584
VI	Volume Index	1 XXVIII



CONTENTS-JUNE, 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK	SLUDER G In \nat my of the Sph no d I 1 t CORY R D A Few \ote n Halle Cl ic With	500
Ora E A The As ociat d Mo ement of th Eye	I speci lkef ce to I do a al S g)	500
The r Nerve Cente's Conducting Path 1 o duction V neties and De geme t 495	Mouth	
Peter L C The Relation of E ophori in Early	DUJARIER INARD and CIRAND C neer of the Tongu 1 Cirl the rs Old	50
P esbyopia to Refr ctive E rors 495	Throat	
PETER L C The Surgical Teatment Con- comit nt Squint 496	Ross E L Som G eral Effect f Loc l \nas	
PASCHEFF C The Differential Dignos s Bet in I mands Cinju ctivitis a d Conjuct t	thetic Admini t ed in T lect my	561
Ne t cans I fectiosa 496 BLEGVAD O Ne ophthalmia Ker tomal 1 d	Neck	
Ye osi C njuncti æ 406	LANLY F H A Re sew of A oth Y ar W rk	
HIBENY M J Localizato of F eg Bod s in th Fye 496	with Thy d D ease (NORWEY G M ind LONG W B Roe tge R)	502
Conds R Dec 1 rat on of the Supe final Laye	Therapy the Teatm t of L phth lmc	5 2
BED IL A J Th Le s S en with th C II	READ J M Roe tg Ray Theraps in Thyro	-
tr dSltLamp nd C meal M crosc pe 407 (Lini C A Lq efact on nd Absorpt n of the	M tabol c R t	50
Cry til ne Le's Rit t Lent'cula Op ities 497	M to C H The I u ct n f the Thyroil Cl nd nd th Lower d Mo tal ty I ll g I ts Sur	
Noops II Repot of Tw L pen es with \c t	g c l Treatme t	5 2
Gluc ma 437 Wilder W. H. Some Ob erations I d t	1) MHLL T P Th Par thyr d Gl d in Rel tion t S rg ry	50
1 th Tratment f Glucoma 497 TREQUERR H M Es ent al C d r ti	NE LS \ L \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5 3
R gad to th Feld of V n C tact no Depr st	Those Son Sir St C I at he sof B th Vocal Co ds Sec d by to Malignant Tumor f the Mamme	503
LISTER SRW H les n th Reti nd Th	STRANDS RG O Th T catment of Rh olars	343
Clin cal S gnific c 40% GREENWOOD A Retin I Veno Th mbo 49%	g l g c l T be ulos by F en Light Bath nd the Result	503
Post VI II T Striki g C s of Opt c \ unt	I SER J S a 1 WATSON D \ t on Γ rt n C es fint c Cancer fth Laryn	
and Rino Childian dy the years 18 s Dece 498		5 4
Ear	SURGERY OF THE NERVOUS SYSTEM	
PARTON II T D f d It I re t 400	Bra n and Its Coverings Crani 1 Nerves	
Pogre (Matod Sugery 409	CORBETT JF Th Teatm tofB nl ; nes	505
	FRAZIER C H Sug ry of the Pt t ry Body with Ill strat Cases	5 5
Nose	ADSON A W OFF W O and CRAWFORD A S A Study f \ triculography	
Post M II Two Striking C es f Opt c \ t d R ti o-Ch dt Se dry t \ \text{1ccessory}	HILDEBRAND O A New Operate Mathead Cal.	505
sal S D sease 498	T tm t of Ch o c I t mal Hydroceph lu	

499

500

111

in Child n

FY C JR Br

More

506

507

th Pathol gt 1

Hology IT catm t

Vasomoto Rhin tis

Absc ses f th \ sal Sept m

HANSEL F K

C 27 2 11 11

CRAS F C Lor lizat n f B n Tumors b

MATAS R Rm k nih So-Ciled Widl t I

Septum f th D g in R lat t th Pn m tho vI robl m

3 1	Det ma at n of the Electrical Res tanc of the Crowth Velckriter K G nd Sossik M C The Koreigenological D gnoss of Cr n pl ryngeal Gosboo A. Fie D g rous (Octius n of th Post nor lader if Ce celler 1 C, March 1 and Genat A Observato's d Autopy h: Ingsina Case (O cp tal Men gec 1) Spinal Cord and Its Coverings Hits T W Adlso (P rick) A am a 1 S by ul Combin d Detec ext of the y al Crowth M The Ingsina Case Hits T W The Hippet I a C mpl I Crowth M The Ingsina Case Sun, ryofther phat C d Levoresce S F perments with Ve I IP Lete Will in Lamnet my Case	\$ 7 \$ 8 \$09 \$ 8 \$99 \$99	the Lift ct of an Open Pn umoth as the Struck J W. St dies Interpoleral Tens on Little TALL II. Wall anant Tumo of the Lung Netews to Inchard Open at the Theory of the Theory of No Palact I man and Y it states. There you have the Lung All the Theory of No Palact I man and Y it states. The profit of No Palact I man and States I
1	Peripheral Nerves	,	SURGERY OF THE ABDOMEN
	MILLER I M Lat Ula \ elaly	5	SOURCE OF THE ARDOMEN
•	Criss and A Expense stall and Chiel Co- trift in a Nove Traglattin	5	Abdominal Wall and Per t n um
1	ROYLF \ D 1 \ Operat P oced re 1 the	3	he w Sig \ O th Ones IN ture fill ma
	Treatm t [Spuste I raly n l It I pen m ntal B	s	Ker L C The lu I t is and It
1	LEST II no British W. R. Th. R. m. t. Le lt. I Operat n. f. Inj ith I	,	
	le it l'Operat n f Inj fth I ritleral Nerses	5	Gastro-Intestin 1 Tract
1	RADICY 1 Th I fi n fth Perith al Serv		RALL P Diffect I the M cosa th Tint of flod th C re f Operat up th
,	n the Hating fluctures Dick S F D of Dick R I I in t	553	(tro-l te i na)T et
	I theral \ 1 \ \ 1 worsted \ the \ 1 es	554	Bin C Thelm pl fTre tm t fG tn Ulceri V w fk nt W k
	•		Print R J I Thereul Ule at of th
	Misc flancous		It to for k Th N m 1 F m 1 th D od a
1	WILON SAF Tum n th Etology f Org canifu to INCN Disea.	5 2	LI
	Attract Cit S Neurol of I and Suggest Observ		Bo KP Smpl Ulr fth J m n!
	tan Naxara	3	(sto R J I WAFLY CIG Th Rlat Ireq 1th Van Post n
	CONTRACTOR OF MILE CHIEFE		R lat Ireq ith Van Posit n t th V rm im Vppe d Vst t ned by
	SURGERY OF THE CHEST		∖al f3.00o (⊿sc
	Chest Wall and Breast		CR D (T K Th) to flhys tgmn a iliutri in th Lolater i rm from
	THE SIRS (PIIB THE VEL) COSS OF STORY OF THE SOLET SOLET	5.3	Anna D P D T moo to F to Abd ma 1
Ī	II TILL W. H. Th. Cl. ic l D gn × f C is m. fth Brat	5 4	It inal t mos Th ugh T be It E W 1 Th R im s Factor Chron Focal I i n
,	Traches Lungs and Pl u a		htt fe ted thith Antham rin ge Cerum
i	LAMBERT A V S d MILE J V Abecess (5 4	iDiuadle Hell
1	H DB101 C \ Crdd E t plural Thorn o pla ty 1 the T atm t f D ff se lf lat al		L er Gall Bladder Pancreas and Spl en
			SCINEIDER J P The D gnos f Ch n c Chol

cvst t u F S

th lan (hr

CUTIA T Deep Roe to n tel lmo an VI t stases 5 6 h ne Trumate F pyema k Hap 5 stinum Der solf laged Thy a it in the thy R ag ons a d Tre tm t 31 cul Lymph nge tsa d 5 8 ortal Spics OF THE ABDOMEN ert n um)neı IN thre fill ma lu I t us and It (6 5) I the M cosa th Tin t rs f Operat up cŧ fTre tm t fG tn nt W percul Ulc at of th rm IF rm fth Dod al Ul r fth II WARLICIG TO ith Van Post n e d 1st t ned by 5 2 h at a flhys tgm o th Lolated 1 rm f rm mpory I to Abd ma 523 Rims Factor 5 3 u Ham hgc R ctoro-

th Poets 1g 1D h

CRNAM I ARen It to nof the Ou 1100

311

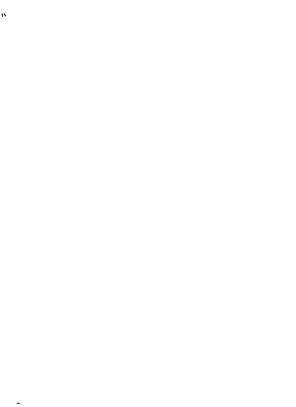
315

£16

525

5 4

RITCHIE H 1 Tie S rgical D ag × f G H Bi dder D e 524	HIRT J C nd VAN DOLSEN W W Lo C rvi c 1 Cæs rean Sect on	537
SCHWIZER A The Sug al Tr atment of D ca	The Complessions	
The G Il Bladder and Bile Channels 524	Puerpersum and Its Complications	
Miscarello G Ch leith a s ith Paticula R fere ce to I fect insofthe Gall Bladder ind P nereat c Complications 5 5	Ca sed by Syphilis	537
ROYSING T Furthe C ntr b t n on the Patio	Newborn	
genesis f Cholelithi 5		
Will HR C reinoma fth Bli ty Tract 528 I to W P The 'yl 1 Dg t n Study I' Th Syl and B! ty Scetto Th Ract Blingm t Sc t n I' ll ng	HERSO R N Spin La d Cran al Ljuries of th Baby Breech Del e A Clinic Lan I Patho Lgical Stuly f Thi ty Fight Case	537
γ1 ect my 5.9	GENITO URINARY SURGERY	
	Adrenal Kidney and Ureter	
GYNECOLOGY		
Ut rus	DOBROT ORSKI W M Types I kid ey M lf r	539
WITES USE B and PEAT SER TO F H C t n	mat Burs J E Calul in the Lidney and U ter	334
Ob rat ns nthe In at nofth Uteru 53	Diagn sa d'Tre tm t	539
Pere s L Fletr therm ca tery T tm t f	O KERBLAD \ F Ea ly Pap lloma of th Kd y	
Le c rrhœa Due to E d c rvi iti 53	Pl	54
CRBLS B C a d O CONNOR V J The T t	Ht ER C L Urete al Stri ture	54
metfColocalEdrect by Hat 3	My CHad WALTERS W Traplattn	
Movmor H d Lecèx F P Duli Fat 1 5 P p at ng P rit nt O urr g th C u f	fU et rs to Rect m	54
Roe tge Tre tment in Ca f F f my m f the Ut ru	Bladder Urethra and Penss	
RETER F Les softh Cruci Stmp i	JUDD I S d Sc OLL A J D ert culum of the	
Spag lly Abl t d Ut u 3	Ur ary Bl dde	541
Adne 1 and Pers Utersne Cond t on	St dy f C es of Slet d V scl N k Obt uct s Ope at d upon by the Auth r	
Werner P and Stickbar R R Th Ope t	Catri P ch	54
Tatm til flammat ith Md d the Clilit fithe Plis 3		
WESTER TZ E Sytm to St d fth W sht	Gen tal Organs	
fth O nes in Relt t Oth Cld f	KIETT R S rgery of th P o tate	54
Itr 18 t dth Ut	BAR J D and GILBERT 1 C Som Clinic 1	• •
	Observat on C er f the Pro tate	542
Miscellaneous	Ht w F d Ct sov T E Tumor f the Ipddvm Sprmtc C d a d Test cul r	
ME KER W. R. d BONAR B I R & 1	T ARe sew of the Literatur and a Report	
Annesth in Gy Ig 101 tt 33	fThee Ne Ca s	543
OBSTETRICS	M scellan ou	
_	BEER F Ch c R tents of U in You g	
Pregnancy and It Compl cations	B y	543
TABTJE The Tem for 1	You H H U y Inti ept	543
frm the St Ipont f (h Sp th	MINET H a d DEBAINS E The P s t Status	
It logical it 34 M NERT A Th C mpt 1 0 M	mot out py do onniga	544
Pg y dlt Rlat hpt Elmps 34		
BOUL ACase fE lyO a nP g) 53	SURGERY OF THE BONES JOINTS MUSCI	ES
DETROIT HATH T ton t iP! t P x	TENDONS	
\$35	Conditions of the Penns Towns 35	_
Labor and Tay Completions	Conditions of the Bones Joints Muscles Tendons	Etc
Labor and Its Complications	Ro D C Bo e Cysts with th E ception of Hid i d Cysts	
FVILLIG Th Acti f Tet 1 At 1 th M cha mof Labo 536	K. I. G.F. Th. F. d. or f San about Burn	S45
	Osteomy ht s by D k F 1/4 lill m at	
Viph Spim dlol\test 536	th Repo tof The Caes	545



PHYSICO CHEMICAL METHODS IN SURGE	nal Appl cat on of Radium fo Deep Th rapy	56	
Roentgenology			50.
Goon J. G. M. and Love, W. B. Roentger, Ray Therapy in the Treatment of E. phthalmuc Goter Riu J. W. Ro. tgen R. y. Therapy in Thyro- toucous. Hs. Effect as View uted by the Hassal Vetabolic Ray U. Ort W. O. and Crawford A. S. A. Stub, of Ventruolography.	502 50 505	Miscellaneous Transparac O The T estiment of Rhunolaryn gological Tube c lo s by Fi en Light B th and the Results Thousnot J E M Tie Us fPl jasothe pay Cert no Orthopped: Co dittions 1th Pa ticular Refere ce to the Usefulness of the Vettime Ray	5 56
W KENZIE K (d SOSMAN W C Th Roent en 1 girl D g s of Craniopharyn	_	MISCELLANEOUS	
g al Pou h Tum t Evans W 1 d Leucutta T Deep Roentgen	508	Clinical Entities-General Physiological Condition	.s
Th rapy of \ pl t c Pulmo ry Meta t se	516	PATTON W. T. D. af dIt P. to CARTER W. W. Ab cess s of the Na. al Septum	49
Priviler G L Th Diag osis of E lagd Thy m by the \ P y a d F eatm t by \ R y Rad um		Et gy and T eatme t	500
CRÉCOIRE R The No mal l'o ms of th D d n !	5 7	with Thy oid Di as	50
C p Bissell F S Th Roentgenological Diag f	5 1	Wilson S A k Tra ma in the It 1 g) of Org nic and Γu ctio al Ne vo s D e e	51:
Ch n Chol yst tis	524	KEITE SIR \ On the Origin a d \ ture of H nia	5 9
Mo DOR H and LECÈNE P Diff s I t 1 S p purating Pert t Oc u ing in th C ure of R ntg Tre time t in Ca f F br myom ithe Literus	53	CL DSTONE R J a d WARFLEN C I G The Rel t e F eq ey of the \ rou Posts s of th \ rm \ m \ pp \ ds as \ certain d by a \Analysis \(f_3 \) col \(s \)	52
R LLESTON SIR H REED SIR 1 KNOX R a d Others 1 Ray a 1 R d um Pr tection C m		Le the Duet Inlocracity	
miti e Revi ed Repo t	563	B ISTOW W R AC cof Sn pp g Slou! 1	340
Radum Th apy 1 Ca ce a d It lutu		I EGG A T A Re ie of th T atment f I fan t le Pa alysis Wite the Acute St ge	54
Outlook	563	JONES SIRR The P blem of the C py le	550
Rad um		Surgical Pathology and Diagnos s	
ROLLESTON SIR II RFID SIR I KNON R ad Oil s YR y and R d unt Pr tection Committe Residence of the state of th	563 563	BATTLE W H The CI cal Dagn f C common th B cast Ct oman in B cast BENT H L The D f ct 1 D r o B t n Infection of Bone and S common f Bo e FIEDDLANE PR B Blood S diment t T tas And in D agnos i S gical I fect s	5 4 54 559

BIBLIOGRAPHY

	Surgery of the Head and Reck		he horo	
He		\$ 5	M ec Laneous	, 1
I ye		505	Genito-Urinary Surgery	•
Lat		3.0		
70		516	If not his ey and teet	- 1
710		567	I at! Ureth's and Pe I Ger t l'Org. +	5 4
		507	V H la com	1.4
•••	-	157	441200	ş †
	Surg ry of the Nervous System		Surgery of the Bones Join & M scles Tends	£ 4
Bra	in adit to ed in the 18 nes	315	Condition fit I may list Make T	,
J. 1	nal Cord to 11t Cnn -		Sugary (the firm Join Muley Teles	٠,٠
1.5	pheral N r es prathet e Nemes	500	fr the nd D for the	
	ell neous	500	Orthopouses in Gen. al.	4
42.4	CEL BEOUS	5.43	Commentate Dividend & Color	
	S rgery of the Chest		Surgery of the Blood and Lymph Sys ema	
Ch.	at W. Hand Bre t		Ithal Vends	٠,
	chea Lung and Pleu	5^3	Il wel and Trac !	
He	t and Pencare m	3 7	Tymph New Is and Cland	*
(Eac	gobage nd Menna t m	57	Surgical Technique	
31 -	ct neou	60		
	S rgery of the Abdomen		Operat a Signa and Tech 1 Privat	512
	• •		Tre tment to time to the all all all all all all all all all al	5,5
324	lomi IW Hand P nt eum	5.0	tected the transfer of transfer at 18 to 20 to 18 to 20	
	tro-I testi Tract	5	1 miliona	11
	r Gall Bod ir Laure — nd Splee cel — ou			٠.
1115		5 3	Physico-Ch reical M thods in Surgery	
	Gynecology		Rie (gerodine)	3
tt:	nus.	3.3	kad un	31,
Ada	ea) dintei Unitem	374	U erla ems	11
	nal Gen t ha	574	Mi centueous	
Min	: Ilannu	5 5		
	Obstetrics		CI I I I they-be end Physidenial Ce from	5 4
			General B et n. t. Montes t Inst. un l te	14
Prez	nanc and It Cirple terr	3 5	tion Ductley Clard	374
Lav	r nd It Complications person ad It Comple toon	5 7	5 gical Lathough of Diagram	11
1,000	datement on as a median range	317		

AUTHORS

OF THE ORIGINAL CONTRIBUTIONS WHICH ARE ABSTRACTED IN THIS NUMBER

1d-o 4 11 5 5 Γa | r W 1 5 3 im A 58 Ta lh G 536 And e 524 A b h 5 513 Frase J S 504 Frase J B 559 B gl y C Jr 5 7 B mes J D 542 B ttl W H 514 Friedlae d B 559
Frazie C H 50
G llani W I 559
G t L S 55
G b on T L 543
C lbert \ C 542
C rand 501 Bedell A J 497 Bedeii A J 497 Be E 543 Bv H L 545 550 Bss II F S 524 Bl gvad O 406 B v II F S a. BI grad O 466
BI grad O 466
Boto C 540
B at B F 533
B at B F 533
B own K P 54
B own K P 54
B own K P 54
C tet W W 500
C tet W W 500
C tet W M 500
C tet J R 541
Ch sena A 510 Chi senni A 510
Cl pp C 1 497
Cl yton C F 540
Coh R D 500
Cook R J 555
Crb s B C 53
Cord R 497
Cra fa d A S 50
C su O 546
D C T K 5 3
C uz O 546
D C t L 557
Deslosses P 547 | V | S | N | J | S | S | O | C | D | O | C | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | C | O | D G t L 557
Deslosses P 547
Delson F D 554
Det i h H A 535
D et v R I 554
D b ot or ki W M 539 D b ot or ki W 21 539
D a A 405
D J n 501
Dunh || T P 5
D t ow H V 409
Flm le R C 55 Eloess L 559 F W 1 5 6 Fehg 1 405

Lar y ne M 549 Le éne P 53 L gg \ T 548 Lemon W S 550 Le utia T 5 6 Lewin P 546 551 Ll nthal H 5 6 P rso R N 537 P a d 5 Pl tt H 5 r 55 P t V H 408 Pnt h d J E 5 R d c L 553 R d F 5 R d J V 502 R de F 53 R d 5 \ 1 563

I the II Red rer C 545 Ros E I 56t Ros g T 527 R yle N D 51 I ussell R H 553 Clbert A C 543
Clbert A C 543
Clbert A C 544
Crand 501
Crand 501
Crodus C V S
Codus C V S
Crodus E A S
Crodus C V S
Crodus E A S
Crodus I mer W G 548 n D Isen W W 537 l all P J 55 Wabl H R Wakeley C I G 5 2 Walters W 54 N t D Waugh T R 548 Nehefrit F 53 N m P 532 Nerth m P c | hiteho e B 530 | ld | H 40 Wilki DPD 53 Nio SAK 5 You g H H 543

LDITOR'S COMMENT

JYTENATIONALISM has been a word much in the julike ear during recent years and the reaction to it has varied from sincere interest and concern to butter analysis in in according with the political belief and reals of the author. That cierce knows no national intriations is an oil saving that interleaf seeince which of all the cierces more closely tockness human sorrow and human will feing knows no restrictions of boun lary or larguage is exemple feed arises in an impress the maring 1 is a morth in the of the STENATIONAL ANSWART or STENATION AS

The comprehen we presentation of the subpiect of cholethasis with particular reference is gall habiter infections and panereative by Miscatello of Ital. (p.35) the discust in of the operative treatment of inflammations of the alreas and the childrat its as of the politic by Werner and Stigliance of Certonia (p.32) and the describtion of a rew operative procedure in the treatment of part is paralises by Royle of Australia (p.300 in the attantive) of me thead teaching and paratise in these witch separated centers that our most pitted and brid and urgrow modil De happy to claim a their own

In a Human to Royle's peration which Ameri can urgeous who have lately returned from in trala characterire as an important e ptri lution to the surgers of the nervous votem a number of abstracts to the months a ue will grove particularly a teresti at the neurological urgeon. The careful observations of the results of pensions for injuries unon the pensional rerses collected and rec tied by list ar i He tos of Manchester and Landon (p.511) summarise the late results of a large series of case of peripheral nerve injury occurri, both in mil are and civil life. Dickson and Diveley a dien um of my nes to per heral revers a socoated with fractures to 5541 ar ! ha ce's to h all excluence of the perpheral reme on the Fralin If actures (p 553) will in erest I that'e per rol- & and she out peries men ?

THE subject of the rack surgers is well see a sented in the months are their The abstracts of a number of paper to sented at a recent meets of the 1m n in 1 custom f r Thoracic Surgery in I cate some of the fritlems which are hilling the a te tim weekers in this peculty. Hell lans pa, thorac plasts in the treatment of udue un Interal Fronchiectasis (p.515) Lambet a f Miller's stules or abserts of the lun frate! I dienthal's in a terce on the neces its for early perati n in cases of malimant turn rid to lung (p 516) and the discuss n of Mata traham and Sas er upon the product as f effect of a neumothorax in animal can i manfe six represent interesting and im, star places i the level 1 ment of m 'ern th' racic surgery

In the fell of abbornmal street is a few although the common of rA A with space in the origin and nature of Jerma (§ 500 er in the origin and nature of Jerma (§ 500 er tubes in attain in and jerma limit for the sin attain in and jerma limit for the sin attain in an alternative of the more first time there is 500. Indicate a report of a case of the morthage extrained (§ 4). Which is a constant and the single strength of the single strength of the single single

In instetrical literature algority pertain 18 reating a confuse their seem to date has per 1 ministers in this min has suited his price 1 ministers in the min has suited his price 1 feeting has so find literally seem are well retrievated. There has description of 31 daily formal in merical to the literature of the chief of the chief of the ministers of the ministers of the chief of ministers of the ministers of

INTERNATIONAL ABSTRACT OF SURGERY

JUNE 1924

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

EYE

Du e A The Associated Movement of the Eyes The r Nerve Centers Conducting Paths Pr duction Varieties and Derangements im J Ophih 1924 3 8 vt. 16

Duane presents the theories which seem mot probable to him regarling the associated ocular movements and the entre tracts and the centers oncerned in such movements. He de enthes the centers in the cerebral cortex the association just was sonnected with the cerebellium and labyranth the descending paths connecting the centers with the nuclei and the functions of the center.

Attention is called to the fact that the rearministery functions ontrolled by these centerand that unicentral movement of the from betential movements in that the letter is efromstimulation of both sides of the brain and the formerfrom an impule beginning in a cut ro none side of the brain. Associated unilateral and bilateral paralyses are decussed. When W c.T. M.D.

Feing A Ocular Palsies b ! W J 9 4

Fe ling gives a brief rev.) in of o ular paises taking up first their anatomical and physiological aspect. second their pathological aspects and third the find gas in forth wire of his own cases. He describe the anatomy of the nerve fibers pa ticularly their origin and cours and the mechanism of their interrelation. The lesson which my interript the meuromuscular chain at a 1000 sister re tabulated.

In I cussing the pathological a pects. I e logfollows Pation Ca shoctation (i) fifteen symbilitie cases in his series nine were cases of meningous cultar symbias and is were cases of tabetic degreat tion. Of five cases of cerebral tumo three were of Special interest because the eye symptoms were the first to draw attention to what eve ititually proved to be a fatal disease. With cgard to the A.g. iil Robert son pupil Feling agrees with those who define it as an absence or a gross diministron of the e ction of the pupil to light with preservation of the reaction on convergence accommodation. Three of his cases of Argyll Robertson pupil were cases in which syphili was excluded. TROMAS D ALLEY M.D.

Peter I C The Relation of Exophor a in Early Presbyop a to Refractive Errors B il J Ophih

In the early presbyopic period there are two typ's 1 evophoria ca es. One comprises those which date from early adult hie and the other those incident to iail g accommodation. Only the second group is considered in this article.

The condition is most prevalent in hypermetrops to have not your a proper correction until the ge of 35 years or later. When the hypermetropia amounts to two or more diophers a full correction particularly if used only for near vision disturbs the established relation between convergence and an commodation sufficiently to give rise to more or less string asymptoms. The represence chus brought about often leads to an exophoria of 10 to the control of th

The first step in treatment is careful refraction in a cycloplegic if this can be u ed safely. If exophoria is marked the full correction is precribed to near wi ion only, and a weaker glass for co tant use. The strength of the constant glass is increased as the patient tolerance warrants.

Prismati exercises are valuable if they are proper to carried out Marked improvement in the con dition often results even though the exophoria is only slightly improved as shown by the Maddox rod test. The following points are important 1. The exercises should be carried out at 6 meters

1 The exercises should be carried out at 6 meters
2 Full correction should be worn during the

3 Prisms must not be tilted up or do n

teen minute periods

4 In rea c in pri m strength should be gradual s It must be ascertained that the vatient fuses the images

6 The patient must be seen at the office suf accently often to insure the use of proper methods 7 Home practice should be conducted daily in fif

Peter L. C. The Surgical Treatment of Concomitant Squint 11 /c.M J 1924 xtt 266

MASSER R MAITS MD

The eyes may be straightened by tenotomy by tendon tucking an l by resection with or athout ad vancement. The treatment depends somewhat on the type of squart and whether or not the deviating eve is ambly onic. If the eve is hopelessly ambly onic only a cosmetic operation 1 in licated and the sur gery may be contined to one eye. In such cases Leters does a resection with ail ancement dener line on the angle of squint. If this is not sufficient a tenotomy of the opposing muscle in the same eye is warrante l

If vision is coually good in both e es an i fusion is fair or good the same amount of sure it should be done on both eyes and the operation should const t in resiction ith or without advancement pe er tenotomy. The same treatment a indicated in cases of alternating convergent squist

In divergent squint tenotomy is of more value and should be associated with resection and ad vancement whether one eye is amblyopic or not Immediately after the remo al of the bandages

fusion training should be institut d providing the amply opia is not too marke I

THE MA. D. ALLEN M.D.

Paschell C The Differential Diagnosis B tween Parinaud s Conjunctivitis and Confunctivitis Necroticans infections B 1 J Ophih 9 4

The author states that Parinaud's conjunct vitis is not a clinical entity but a syndrome the salient features of which are unilateral conjuncts al in fl mmat on accompanied by suppuration in the preauricular and submaxillary glands and a rise in the temperature Several conditions such as tubercu losis and leptothrix have been named as can ative acents

One type of conjunctivity which has a definite etiology is termed conjuncti itis necrot cans The organism i olate i has the mor infectiosa phology of a coc o bic llus o 25 by 2 micra and s gram negati e Sp che antibod es vere d mon strated in the serum of patients suffering from th lisease and guinta pig inoculation produced exactly the same results as inoculation with portions I affected conjunct va namely the format on of typical white necrotic points in the sple n and d ath in seven or eight days. The autho has nam d th organi m micro-cocco bacillus p lymorphous ne In mal experiment ton is the su c t crotican method of diagnos ng this co ditt n

MA ORD K II TO MID

lilegyad O Verophthalmia keratomalacia and Xerosis Conjunctive im J Oph h 19 4 3 5 VH 80

Blegvad collected the histories of 414 cases of keratomafacia in children and thirteen cases in adults occurring in Denmark during the years 1000 to 1020 The experimental work which determined the importance of the vitamin f t soluble A is te Viener! While in an mals food plays the most im Dortant part in the development of the di case in man other factors must be taken into consideration The cond tion appeared earlest in the youngest th ldren receiving a diet deficient in fat soluble \ The largest number of cases were seen in May and December The mortal ty rate of 21 per cent was high but was lower than the previous death rate before milk treatment was given

Of the 208 patients who survived 27 per cent were blind 24 per cent had vision greatly reduced in both eyes 35 per cent had vision greatly reduced in one eye but good v sion in the other and 14 Per cent made a complete recovery without reduc Onn of vuido VIRGIL WESCOTT SCI

Hub ny M J Localization of Foreign Rod e in the Eye Rd lay oza u 11

No examination for the po s ble presence of a f reign body in the eyeball should be con dered e mplete ithout the use of the \ ray If a fore gn body is demonstrated it should be local zed by m ans of a localization apparatus and not just by anteronosterior and lateral vi as as recommended b a prom nent ophthalmologist \ ray local zation Permits operate e me sures in the icinity of the foreign body and therefore decreases the am unt of miury in extraction. Rel ince shuld not be placed on postero-anter or and lateral pro ects as be use of v riable factors. Stereoscopy is even less teliable. The variable factors which must be over me are (t) the l cation of the central beam of the I ra which affect the situ tion of the p of cted tore gn body (2) the siz and shape of the head

n i (a) the location of the eveball Fr m a legal standpoint a n gat ve report should The eye appears negiti e for forei n

always read

bo to opa tue to th \ ray Hubens establishes the presente of an opaque for ign body by using t o films expose i simul taneously On one h tak's a post ro- nter or projection and or the other a lateral projection Inten s f ingscreens should not be employ 1 D pendence cann t be plac d n mov ment of a f reign bods to lemonst ate its plese ein the ey as foreign bodies emb died in the selet or eye mu cles produce the sam off ct and mo m nt has less diagnost c value the nearer a fo eign body I es to yard the pol When an instrum nt su h as Sa et s a used the head should be adjusted befo each exposur When the foreign body is a splinte of glass a roentgen ray taminat on should be made In bord Ine cases extrnec cmutbeused

VI \ R W Tz MD

Cord R Decoloration of the Superficial Layer of the Irls 1m J Ophth 19 4 35 Vii 2

Cords reports four cases of decoloration of the its folloing it localities glaucoma and continuous The cause of this phenomenon is of scure 1 ut is probally an interruption of the blood supply or a tree disturbance. The R. Mascort M.D.

Bedell A.J. Tile Lens as Seen with the Gullstrand Slit Lamp and Corneal Micro cope. J. 1m. M. Its. to 4 ly 1.363

Beldi has lone a very fine piece of vork in his study of the vanous ocular structures with the concalinorcoscope and his artistr 1 most excellend. This paper 1 acc impained by a large number of colori t drawings showing the vanous rouditions out in the normal lens and in the lens in cases of complicated cataract (4) chronic glaucoma (1) indodalsas in il man, other on thuos.

THIM D ALLES M.D.

Clapp C. A Hquefaction and Ab orpti n of the Crystalline Lens Relation to 1 nticular Opacities 1 J Ophik 924 3 1 3

Chaptersiens the embryolog groth struture mour himst in chemistry of the crit tall ne lens Not satisfied with Cunns or lar on a xplantin in of the caucal of able critical fraumatic cattract hespegess that the ell unimous is max le legisted like approach to the common size of the cattract of a prote live ferment in the lens or in the aque ous or a prote live ferment in the lens or in the aque ous or the cattract of the cattract of the lass last l. in the treatment of cattract of the lass last l. in the cattract of the cattract of the lass last l. in the cattract of the

Woods 11: Report of Two Experiences with Acute Claucom Im J Ophih 0 3 3 0 4

1 West MD

Noods reports two cares of congiti glaucoma in which iri lectomy was lone with good result In the first cale the presbyopia was indicated by pain on he rwork rather thin to poor vi n The fells were taken at vari us tim a l foun in rm l lilurring of vis on was fr t noted one aft rix n n l luring the night the patient was k n I w th hi at p in in the right eye I m nate the next morn ng showed a c gesti glau m p t 3 icil to e crine Iril t m w The 11 mul t f ly an unu ual hamorrhage wh n th 1 and hel to it was accord. The Lite reted vin wa 200 Nm m th lirth pati nt r ported that h wa u al ut the th e e H l cain wa in tilled frt m (r) The eve flushed the put it 11 ted a 1 th t sullenh increased I rn a u I nI thee 'ma luter an in lect m w I li w g th 1

Jerstin the patient offered interpolation and patient of the second of t

The second case w if king to ig

glaucoma in the right exe. The jutient had hal natured, of grippe complicated by facial erg speliss. Vision became reduced and ten on increased Because of the erg spelis operation was considered impossible. Therefore e rine and pilocarpine were institled. Viewel hater adrenalin was used to reduce the conjunctival irritation in the left exe. This was followed by rapid dilatation of the pupil. Under either anaesthesia indections, visione on both exes. In the right eight experiments of the pupil under the range of the right experiments of the pupil under the range of the right experiments of the pupil under the range of the reduced the reduced to th

A GH WESCOTT M D

Wilder W. II. Some Observations on Iridotasis in the Treatment of Glauc ma. J. im. M. 1.1

The etiology of glutuoma being uncertain all methods of treatment are directed to the elimination of its most prominent symptom—increased intra-orul r tension. Fven if the tension 1, reduced changes may continue to occur which ultimately let tros sight. This is true more frequently in simple glaucoma than in the congestive type if the latter 1 or cat 1 upon early. In the chromettype the tension

ft n diff cult to determine

Fo letermine the early stages of simple glaucoma. Will fer ally cites the record ing of tonometric real ings of tensym and of its variation after the use of motifs and mill mydratise the charting of vi unit I list and I is stuly of the central field for scotoma it in the central violent remains normal it is his practice to perate if the continued use of motice all it is either that the continued use of motice all it is either than the continued in the continued and it is either than the continued of the continued use of motice that the continued is the continued and the continued a

It technique foll as elo. I that of Borthen a horizontal cut is ma lein the conjunctiva high alose the limit u and 13 Hourid, section a tunned about a mm with a mit 21 the to the limit u. The eyes then held lownwith all a keratome incri in about 4 mm with es mit entit the anterior chamber i mm fum the limitus her mit entit the conjunctival flap small trist freep are nitre luced the riss is graped at the pujillars mirgin and I frame into the woun I in und manned the conjunction.

uch manner that it is minted poster or surface, spoods and the sphinters of drawn out of the wind. Att pine is not used before the operation be ausent it? I to make the inst thicker specific it is made the inst thicker specific in the present of the presentation of

fressed t ents four h es after the operation.
Will r reports the ris six cases in which forts

eight operation were performed. Ten oper to now to I nell recongestion and thirts-eight f rehronic glaucom. A reduction in the ten in for a varying I night of time was of talled in the perfect.

The immediate an I remote dangers of this opera tion are slight. It gives as good results as trephina tion selerectoms and cyclodialy is and is prefer able in ca es in which the iris will bleed eas h (high blood pressur and atheromatous blood vessels) and then previously performed operations have fule I to give good re ulta

VIRGIL W SCOTT M D

Traquair II M Essential Con iderations in Recard t if e field of Vision Contraction er Depression? B 1 J Och & rate 1 40

Fraquair con iders the fell of vi ion not as a man with onl outlines to represent the limits of the frils but as a contour man howing those rarts which are more ensitive than the others A cross section of sich a c atour map shows a hirt peak at the point of fration with bor lers aloning irregu larb to the remphers. On the nasal s le after a s mewhat gentle slope there is an al rupt drop at the do-derice meritian whereas at the temporal the the dror is not nearly in abrust as a extends ast the roo-degree meritian. In the area occupied to the blind spot there is an alrupt drop to zero

which as pears as a very deep canyon Most of the pathological conditions found in the everesult in a Sepression in a part or in all of the field rather than in simple contraction. To measure such derressions Traquair u es targets of different cres or different luminosity. With these he is alle to trace the contour line or isot ters with con i ler at le accuracy

He finds that this method is usually of great advantage in the diagnosis of early glauci ma t clore very great damage has been lone. In all perimetric work it is ess nital to select carefully the size of each test object and its distance from the eye with a view to the requirements of the particular case. These sizes and distances houl i be recorded

To was D tree M D

Holes in the Retina and Their I later Sic W Lilnical Significance B 1 J Ophih 19 4

Holes in the retina may be live led into macular on I perspheral an I each class sublivided into trau matic and non traumatic Traumatic holes are produced by contrecoup terring at the macula as the result of I lot s on the anterior egment of the globe In some cases there may be the atermeds ate sten of cretic degeneration resulting from the Non traumatic holes at the macula are due to retinochoroi lal lege eration usuall with easti ! beneration

lerinteral holes of trainate origin may occur a lincent to the sie of impact or in regions more or less distant. The production of holes in the retina 13 cases nithout a history of trauma has been as er bed to (1) cystic degeneration of the retina followed by spontaneous rupture of a cyst (2) an increa e in the ten : n in the inter retinal space no retinal detachments lue to a high all uminou content of the fluid here (3) retinal detachment

occurring in areas where the retina is adherent to the choroid as the result of old inflammatory or it esses and (4) traction on the retina by fibr us bands of the vitreou

Holes in the retina are of clinical sign ficance in connection with the prognosis and treatment of retinal letachment. In no case in which a hole was present has detachment been lue to a tumor A h le can be diagnosed even though not demon strat le ophthalmo copically if a rel able history if su iden liminuti n in vi ion is obtainable and retinal detachment is foun I to accour for it Such a con clusion foll we since it is a recognized fact that a sullen detachment cannot occur a thout a hole In the treatment of a mple letachments by puncture of the subretinal space, the outlook is far better in the absence of a hole. In general operat e treat m nt is not indicated when a hole is tresent

Ma on R Matry MD

Creenwood A Retinal Senous Thrombosis J. Im M A s 1924 lax 92

(reenwood reports several cases of thrombos s of the central retinal vein II concludes that the ob struction is due u walls to an obliterating endo t bl litts and rarely to thrombophicists. He urges active treatment of what is usually thought to be a hopeles, con lit on. He suggest inhalati as of amil nitrate the internal alministration of n tel s n locarnine weats and mil purges For ing continued treatment mall do es of syrup of lad a odic aci i ha e been f in l of value Motica should be used on if tension is normal in or ler to prevent secondary of ucoma

One of the ca es reported was that of a patient who developed they ring this thrombosis of the entral ve n of februs f both lees and econdary glau oma IR IL Urscott MD

Post 31 II Two St Iking Cases (Optic Neuritis and Retinochoroiditis Secondary to Acces ory Na 11 Sinus Di eas J M Stat M 4st

In the first case reported by the author dr mage was estable hed int the ight ethmo land prevoid sinu ca In two da s the well n of the n L gral ually became le vi ion imp o el to normal the neuritis d appeare i and the scotoma be are

mail ran i nnally out in the napped out

area of atrochy at our the di k remained In the eco i cae a praentral ring shape i scotoma with ut effect on 1 ion w s fir t noted In five days the att ch subsided 5 x m nths later a kidney laped of ma n luding the low r nasal part n of fix tin appeared D finite ne imor phop is a firme shaped r extending up and 1 from the cong t d ma ula conge to n of the nasal muc us membrane pi al b ces es and a dr i ing sinus from at upper touth r t sere to d The e was no disease of the sinus. Following the rimo al of the tooth the ngst n of the coloma and

macul derea et bit the vi on droffed Ino

neeks later another tooth was removed. The sco toma then disappeared and vi ion became 20/15 One year later the scotoma appeared 1gain but complete recovery followed local nasal treatments.

TAD

Patton W T Deafness and Its Prevention

The author describes the various types of deaf new Special emphas 1 laid on the necessity of instituting thorough treatment early. The greater the duration of the deafness the 1-sts the charce of improvement under treatment. Neglect and under treatment of die cases of the ear nose and throat in childhood are responsible for many case of derf tees in later life.

The most common causes of perception deafne are syphilis and foc infection

WILLIAM B. ST. RE. M.D.

Dutrow H V Some Practical Points in the Progress of Mastoid Surgery L g c p

The author call attention to the rapid strides made in masterd surgery during the past the edecades Mastodectomy; no longer an operation dreaded by the surgeon as its high mortal ty rat has been lowered.

The diagnosis of acute mastoiditi is usually easy because of the advance in laboratory m thods and the use of the stereoscope in the study of X ray

The incision is made from 3 to 5 mm poster or to the juncture of the auncle with the scalp and conforms to its curvature. The periosteum is carefully preserved as it aids in the formation of nex bond. The upper part of the wount is closed in the interrupted silkworm gut sutures and the locet that allowed to remain open for the removal of the pack.

In the author's opinion the ricent suggestion made by Baranv relative to closing the ad tus by means of fibrous tissue: practic I and of ment If this method is adopted it ill be the means of obtaining dry ears without the usual elabo ate plastic methods which frequently fail.

The transfus on of whole blood to me ease the

patient's resistance will save many lives

Larly recognition of the degree of middle ear and
mastoid involvement and rational suggal treat

ment will result in a lower mortality rate and the preservation of hearing

JAMES C PR EL M D

NOSE

Hansel F K Vasomotor Rhinitis J i M 4

During recent years clinicians he investigated extensively the causative factors of vasomotor

rhinits more particularly the seasonal vasomotor rhinitis or so culled hay fever. There is however a group of cases in which this type of symptoms con tinues throughout the year without definite seasonal activity.

The author reviews the clinical course and the reactions to treatment in ioc cases of vasomotor thinitis observed at the Mayo Clinic during the last to veris. The cases were grouped for study according to the methods of previous observers. Particular attention was directed to the ocalled reflect type of case in which no protein sensitization factors vere demonstrable. The me, artive skin sensitization tests in these cases do not prove that such factors are absent. There were sixty one cases in the protein sensitization that the protein sensitization were classified with the protein sen titization group.

Vasomotor rhinitis may be divided into two distinct types the reflex in which no definite protein sensitization factors can be demon trated and the protein sensitization in which there i sensitization to the proteins of foods bacteria animal emanations and pollens.

In the reflex type are many contributing factors other than the local patholog conditions in the nose these include age sex occupation climate temperament and environment General systemic functional or pathologic conditions play important parts. The cardinal symptoms of the reflex type are sneezing a masal di charge and misal obstruction with little relation to sessons. Closely as sociated symptoms are lachrymition headache periodic desiness asthma and bronchitis All of the

vimptoms may vary

In the protein sen itization type anaphylaxis and
allergy may be considered the important factors but
usually there are other causes more or less important

The nervous mechanism is the same in all cases and a thoroii h kno vledge of it is essential in the e plu ation of the nasal symptoms

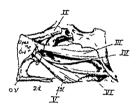
The patholog cal condition is e sentially uniform analy a pale swollen bogy masil mucous membrane with polypoid degeneration or polypoid hyperplass. Definite sinus infection is rare. The cloudiness of sinuses in the reentgenogeam is caused the following the mucous membrane and the deem condition of the mucous membrane and the deem condition of the mucous membrane and the deem condition of the mucous infections should all vary be ascertained or ruled out by the usual d agnostic procedures.

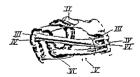
The treatment consists in the removal of all possible causes and local spolacitions to the spheno paistine gangl on In the reflect type of case the latte is the treatment of those Satisfactory and gratifying results from the standpoint of both the gratifying results from the standpoint of both the use of silver it is the standpoint of both the use of silver it is said and the standpoint of the use of silver it is said may be used to so per cent. The same method of treatment is applicable to the prote a sensitization type. Opera the procedures should be carried out judiciously The relief of anatomical nasal obstruction adds a

great deal to the restoration of the re p ratory function of the nose and to the relief of the symptoms of physiological obstruction. A change of climate may be very beneficial and should be tried in certain selected cross-especially if other forms of treatment have not been successful.

Studer G The Anatomy of the Spheno d Fissure Ant Oil Rh of E Lay 1 19 3 xx 1 11 3

The author noted that injection of the nasal (sphe nopulatine) ganglion was followed sometimes by paralysis of it eithed cranial nerve and sometimes by paralysis of the sixth cranial rerue. This suggested that the position of the nerves in the sphenoid fisture is inconstant.





If g ? Cut t ith phn if meht d I that cas the the respect to the the real that seem of the real to the real term learted a compa d with I g

A series of di sections on the tadaver versied the supposition. As a rule the abducens was lower most but occasionally the ocul motor was lowe t either in its trunk or in some of its branches.

STERES & SON STE WA

Carter W W Abscesses of the N sal Septum Etiology and Treatm nt U d J & R c 914

Carter discusses abscresses of the nasal septum with special reference to the trendment of the result ing deformitie. I ractically all such al seeses are the result of trauma. In the treatment Carter makes at L shaped ince on on the left side the long, arm septum and the short arm extending backward along the floor of the nose. The nosion is made fred into the abscress cavit. Carter then washe out the pus with arm steri ized salt solution swabs out the cavity first with uteral absorbant cotton out the cavity first with uteral absorbant cotton but the cavity first with uteral absorbant cotton last with ps per cent grain alcohol in do then into lines one of the gold wir published in the cavity last with ps per cent grain alcohol in do then into lines one of the gold wir published in the cavity and the cavity and the cavity and the cavity of the c

fossa For the correction of sad lle, back deto mut) due to abscess the author trans lants autogenous bone and cartilage graits. Vstrip of conjoined bone and cartilage from a nh is introduced through a sit in the roof of the left in said cavity in such a manner as to build up and support the massi bridge. The upper of the graft which is placed in contact the control of the graft which is placed in contact the state of the graft which is composed of cartilage exist born, known in about to months. The lower end of the graft which is composed of cartilage exist into the tip. The transplaint ton is done as so as the abscess has he le for Tow M Room M 500.

Cohn R D A Few Notes on Halle's Clinic with E pecial Refe ence to Endona al Surgery

In this contribut on Cohn liscusses the practice at Hall (6 lise in (1) turbinections (2) submittees septium treaction (3) op ratio for the closure of a ptum per f x in (a) the nionasal finatul s aus operat in (5) operation on the ethinoid (6) operation on the plan of (7) the rad cal antitum operation (8) binder's follong injections in the transition of the plan of (7) binder's follong injections in the transition of the plan of (7) binder's follong injections in the transition of the plan of (8) binder's the plan of (8) binder's follong in the plan of (8) binder's follong in the plan of (8) binder's follong in the plan of (8) binder's binder (8) binder's binde

I binectomy H lie does not I rform turbinec towne. He cuts off byp rtrophied tips but do s not acrifee th structure iself even hen operating on th s nus s

on his mass of the of the septem. Sulmut our resection of the eptem is the mot I equit of it the operations p to med the Haile Cln c load amasthesia u to d. A mode field kill an incision i mad the earning is removed in the straight of the septem that it is straight and the putum that is straight performed before the t. eith by re rol as

Operators for the closure of a septum perforation. The procedure is a modification of the 1 and septum per place. The prefeation is first closed partially by turning into it to or three small flaps made along its los er edge. A large semicardiar flap is then outlied above it and a farte being displaced down ward so as to cover the perforation and the smaller those things completely is sutured in place. Tamposs in the opposite side serve to press the smaller flans erainst if

Endonasal frontal sinus operation After the usual cocaine novocaine anæsthetization the middle tur binate is sublivated toward the septum mucoperiosteal flap corresponding to the entire region in front of the middle turbinate i then made by means of three incisions the first from the head of the middle turbinate unward to the roof of the no e the second extending along the roof of the nose to the piritorm aperture and the third extending thence along the free edge of the aperture to the head of the inferior turbinate. The flap thus made is turned down over the inferior turbinate agger narium 1 then chiseled away the anterior ethmoid cell and the open ng into the frontal sinus being thus exposed With Halle's blunt headed pear shaped electric burrs this opening a then enlarged The frontal sinus is curetted the flap re

the c'i and the nose packed Ethmood operation. The moddle turbinate is sublusticed and pressed tightly against the septium with a long parroy. Infect to sagittal incisions are made one just under and along the lateral surface of the moddle turbinate and the other along the mod i surface of the lamma pay spaces both meet made i surface of the lamma pay tyaces both meet made it surface of the model turbinate. I unch forceps and a curette are used within the lines of the two incisions. By this method the middle and posterior ethmoids are oppined. The anterior cells are openably the technique for the frontal signs us opera-

Sphenoid operation Usually the removal of the natterior wall suffices but when this opening tends to close two flap are made in the shap of an after the fower flap as large as possible. After the natter or and a large part of the infer or all nature part of the infer of the

Rad la t: ope atton Th Canfield Stirmann method is used in order to avoid the necessity for an oral incision

Bindness followattes set 18 st 18 st 18 met on mice cons for local anaesthes have by mesh nec entered the orbit producing imme liate blin lines with the method of the control and deep incision to the orbit allowe and belo in lud g broat to the orbit allowe and belo in lud g broat to orbit of protein G cat haste is necessary as lelay of a fee hours II esult in necessary as lelay of a fee hours II esult in a permanent blindness the condition to being tue to n acute ordema in the region of the opt c foramen. Our allow from 'n L by ped neision medium.

the nasal mucosa beginn ng n i ont of the heal of

the middle turbinate extending downward to the head of the inferior turbinate and thence continuing horizontally across the floor of the nose to the sep turn. Through this horizontal incision the muco periosteum liming the floor of the nose i elevated and the lower anterior portion of the missal wall of the antrum is brought into viev. The entire lower border of this antral wall is then chistical from the nasral floor and the anterior vertical border of the antral wall is chiefled through. The entire inner innertial antral vall is carefully pushed over to the continuity of the antral wall is carefully pushed over to the antral wall is carefully pushed over to the continuity of the antral wall is carefully such as the particular than the turbing and the spectim flowing been previously freshened in order to prevent the formation of adhesions.

Fndonasal lachrymal sac operation The technique used is a modification of the original technique of West The operation is done entirely endonasally It is not described in detail

The article is conclude I with the following sum

mary

The tendency in nasal surgery i definitely a vay from the radical external methods used in the past twenty years

 As far as possible all nasal operations should be done intranasally
 The establishment of normal nasal respiration

3 The establishment of normal nasal respiration is in many cases all that is nece sary for the cure of chronic nasal empyema especially antral and sphenoidal

4 Ozena hitherto incurable is now a curable condition

5 The problem of chronic lachrymal disease long the despair of oculists has been virtually solved The key to the solution is the restoration of drunage from the conjuncti al sac into the nose

OTTO M R TT MD

MOUTH

Dujarier Pinard and Grand Cancer of the Tongue in a Girl 21 Years Old (Can de l l gu h une je e fillede ngt tun a s) B ll t mém Soc de h de Par 1923 l 1537

In May 1972 the patient noted some small lesions on the tongue which were level-politic in character. She had worn a dental plate from 1908 to 10 4 In June 10. She treated the form 1908 to 10 4 In June 10. She treated the properties of the lesions which washes In May 1921 one of the lesions became purple. Her denuts made two local applications of non-arisenobensol and advised her to use mouth ashes of potassium chlorate. In September 1923 the site of the less ons became in lurate I and bright red. Later ulceration occurs?

In spite of a negative Wassermann reaction the lesions were considered guinmata and treated by injections of ota. As these treatments were without effect the patient sought hospital treatment

Biopsy led to a diagnosis of epithelioma On the mother's side of the family there was a history of syphilis Salvatore di Palma, M.D.

NECK

Lahey F H A Review of Another Year's Work with Thyroid Disease B st n & S J 1924

On the basis of another years work, with thyroid desease the subject concludes that thyroid extract is contributed in touc cases and that prolonged coding feeding may convert non touc into touc the gotter. Hyperthyroid is in sleways associated with an increase in the metabolist rate and the curr of hyperthyroid im causes the return of the brisis metabolism rate to normal provided there are no other conditions responsible for its elevation. Brasil metabolism rate to normal pulse in neuroses simulating thyroidism becaue the rate in neurosis is normal.

Basal metabolism readm's uncorrelated are not a rel able gu le to the number or extent of operations a patient will be able to stand. Minus degrees in the be all metabol sm rate may be determined in cases (fee from clinical exidence of invandema vet made subjectively, better by rais any the rate to normal with thy roid feeding. In severe hyperthy roidsm multiply stag measures at life saving procedures

Thy rocardiac cases first seen in decompensation may be restored to striking cardiac capacity if it is possible by thyro dectomy to remove the into ica tion and to re tore the heart rate to ithin the nor mal limits. The most dreaded uncertain and un-

controllable factor is me hastinitis.

The moderate value of \(\) ray tre

The moderate value of \text{ ray treatment s more than out eighted by its disadvantages Throad surgery done to a general clinic equipped for the care and study of these cases will show few failutes to cure and a mortality rate rarely over and in most cases under 1 ber ce t

ARTHUR L STREPPLER MD

Goodwin G M and Long W B Roentgen R y Tl erapy in the Treatm nt of Exophth lmic Go ter 1m J M Sc 924 clx : 38

There is considerable difference of opinion as to the exact cause of couphtain or go ter and the proper math of of tree ungit. Some claim that surge; is the only effectual method of tre trench others impressed by the surgical isk a dithe frequency with which the symptom recur after operation go to the other extreme of condemn ag surger, also got in the other extreme of condemn ag surger, also got in the other extreme of condemn ag surger, also got in the other extreme of condemn ag surger, also got in the other extreme of condemn ag surger, also got in the other extreme the condemn again the treatment and the ab ence of as ociated risk recommendation.

The authors report nine ca so f to ce ophthal mic go ter treated. It the reentigen ray lin fi e the results have been sat sfactory. In one case the effect of the treatment is doubtful and in another no conclusion can b dra n b cause the treatment was interrupted. In the two remaining cases the tox was a seemed to increase in spite of p olonged treatment.

Annure L. Surg I. M. D.

Re d J M Roentgen Ray Therapy in Thyro toxico is Its Effect Measured by the Ba al Metabolic Rate Cal for; St 1 J M 924

In the great majority of cases with the upes und symptoms of thirtot account contigoring invaluation seems to have a benefic al effect. As the red to the differentiation between the Gra es syndrone and tours adenoma more satisfactory results have been obtained in the treatment. Most observers where that in case of tous c'al nomata the treatment of choice is surgical interve from The situation of choice is surgical interve from The situation with respect to I rates dissense is less satisfactory the respect to Taxes dissense in early also the proper the resource of the proper the resource of the proper than the contract of the proper the resource of the proper than the contract of the contract o

The roentgen ray seems to be effect; en reducing the metabole rate and overcoming the signs and symptoms of thyrot costs Determination of the basal metabolic rate affords the best check. In the results of treatment and should be mude a rout in mea ure in N. out treatment 4 period of from three to sax months is necessary to obtain maked improve to sax months is necessary to obtain maked improve metabolic rate the longer must treatme to be a funded. None of the author a fifty five patre swas impred by the riradiation. There were no deaths unjured by the riradiation.

ARTHUR L SHREFFLER UD

Mayo C II The Function of th Thy o d G and and the Lowered Mortality Following Its Surgical Treatment J I d n Stote M 1s

The author review is briefly the pre ent post on of thyroid surgery. He accepts the clas sociation of disease so of the thirtoid introduced by Flummer and emphasizes part cularly the difference between a sof exophithalm c goster and cases of adecomands showing hyperthyro isam. He states the difference or grammatically thus. Adenomatou goite with hyperthyroidsm is pure hyperthyroidsm with an evophithalmic goster is hyperthyroidism plus dishiprodism.

He regards the giving of Lugol's sol tion in the of exophthalmic go ter first advocated by Plummer as a di tinct advance which if fully appeciated sould lower the su g cal mortality if this disease The surgical approa h recomme d d is throu h a collar incision with division of the anters r muscles of the neck high up if they do not stretch sufficiently to give good expo e Emphas s is placed upon the importance of applying hamos a s and closing them in line ith the traches and nerves and of suturio the gland in the same direct on If anovemia occurs after operation because of njury of the traches or larynge I nerves tracheotomy is ad a able Ex amination of the larynx before and after ope ation M R FLYN ID s also advocated

Dunhill T P Parathy id Gland n Relati n to Surgery B t M J 9 4 5

The larger parathyr d gland on each s de 1 cl t the posterior border of the lobe of th thyro d near the point where the inferior thyroid arterybreaks up not is branches before it enters the gland Generall, the blood supply is derived from one of the branches or the inferior thyroid artery but occasionally it comes from an anastomous between a branch of the superior and inferior arteries. The biberation of this area of the lobe involves possibl damage to a parathy one direct through its removal with the thyroid lobe or the inclusion of its blood vessels an alparature.

To avoid these two dangers C H Mayo ligate the branches of the inferior thy roid artery within the capsule of the lobe plunges mosquito forceps into the glant and divides the thyroid distal to the

forceps

In Graxe's disease the removal of one lobe will sometimes effect a cure. The surgeon must determine in the beginning what part of the gland must be left for physiological purposes. More than one operation will be necessary before the best really are obtained. If gland it use us left scattered to the state of the surface of the surface

In Dunhill s opinion the parathyroids are best protected by clean dissection of the po terior borders of the thy roid gland with ligation of the branches of the inferior thyroid arters as they enter the gland In regard to parathyroid me hieriton he; verskeplical When tetany is present the; jection fe

4 gm of calcium lactate is effective

Dunhill has not attemy ted parathy to d transplan tation but Coupland of Leeds has shown that th can be done in the dog and that the graft will remain alive for many months

ARTH TR L SHRF LFR M D

Negus V F A II therto Undesc ibed Function of the Vocal Cords J L v g l c Ot l 924

Cords similar to those of man are found in numer ous animal which are silent Besides s lent and noisy animal there are many which can produce a variety of sound when they so desire

In addition to sound production, the larving has a function in connection with repiration and deglutt how. It appears that the regiotic article possible and cartilage of Wire berg and Santorinia a example and anothing to do with your production and have nothing to do with your production.

For efficient fixation of the thoraci wall mu cultration exerted in particular by the abdominal mustles does not of its if give an efficient a distationary position. To obtain pe fect the cc fi ation it is necessify that air be improned in the thore cc taxity while the effort hats this necessitating tempora y exestation of espiration.

The changes in the go to thof the human farving an actual and a relative increase in the I night of the vocal cords. In the fetus and right the vocal cords. In the fetus and right the cord are very short. They so not clongate untlan age: reached when more powerful foreign efforts are

necded. It is the male who at puberty develops coincidentally stronger forearms and longer vocal cords

The probable function of the larger to which the author calls attention is based on three assumptions.

During efforts in which the forearms of an

animal are moved by the lower fibers of the pector alis major it is necessary that the thoracic walls be fixed

2 Therefore air must be imprisoned in the thorax 3 Sphincteric muscular action being insufficient to control the air inlet under diminished or increase 1 pressure valual rain raged action 1 brought into play and as in practically all animals the only type of their one that can present entrance of air into the lungs the air imprisoned in the thorax mu t be in state of reduced pressure.

JAM S C BRASWFLL M D

Thomson Sir St C Paralys s of Both Vocal Cords Secondary to Malignant Tumors of the Mam mæ J L y g l & Ot l 19 4 18 22

The author reports an unusual and interesting case of paralysis of the vocal cord caused by growths in the mediastinum which were secondary to malienant di ease of the breasts. Eighteen years after the removal of the left breast and inteen years after the removal of the right the patient's voice suddenly changed. The first examination of the lary nx revealed complete fixation of the left vocal cord but nothing in the neck or upper air passages to explain it Fourteen months later the r ht corl became paralyzed \ ray examination after involvement of the left cord showed that the paralysi was due to pres ure on the recurrent larvn geal nerve from a neoplasm in the glands of the thorax The patient died seventeen months after the first laryngeal symptoms were noted. There was no postmortem examination

J MES C BRASWELL VID

Strandberg O The Treatment of Ri inolaryngo logical Tuberculosis by Finsen Light Baths and the Results Proc Roy Soc W d Lo d

Strandberg cla ms that the Finsen light will cure rhinolaryngological lupus vulgaris tuberculosis of the larynx and tuberculosi of the nasal mucous membrane

Bet teen 1913 and 1921 379 pp1 ents her treated for lupas valigan. Of the 349 who remained the observation 394 her custed. Of 100 and the definition of the second of the second of the second of the second of a nets second who here houses second entitled the second of the second of

For the first few days patients with tuberculous of the lary nor those who are seriously ill or feverish lie in the Finsen 1 th 1 lath for from ten to fifteen minutes. The time is then slowly increased up to the fall dose two and one half hours every alternate day

After the first bath an erythema appears on the body and soon the patient appears as if sunburnt The Finsen bath is given with an electric carbon

are light Otto M Rott M D Fraser J 5 and Watson D Notes on Fourteen Cases of Intrinsic Cane r of the Larvax P o

Roy Sc Md L d 94x St Laryngol 1 The cases cited were seen between 1916 and 1922 Twelve of the patients were males The ag s ranged from 36 to 76 years. The oldest patient a well more than four years after the treatment The

youngest died of recurren e The main symptom vas hoarseness The had been present for from one month to two years Two patients had a papillomatous variety of growth. One

shoved hyperkeratosi of the affected cord Eight had a grayish pink sessile warty growth. In three this reached the anterior commissure and in one involved the extreme anterior end of the opposite cord In two cases the growth had invad d deeply with marked ulceration thyrotomy was perf rmed first and after r curren c of the tumor lary g c tomy was done Both patients died shortly fter the laryngectomy The auth is state that laryngec tomy should have been done in the first place. In one case the growth was in the form of a ring around the glottis Larvingectomy was done. The patient lived seven years and finally died of curcinoms of

the cervix of the uterus Primary the rotomy was done in there in cases and laryn ectumy in one Of the fourteen patients seven recovered and seven died. Of thos who recovered one I ved s ven years after the operat on one six years two four years two two years and one one year. Of those who died one died of ano plexy three of pulmonary complaints following

operation and three of recurrence The authors conclude that in an ell defined group of cases thyrotomy is a suitable operation for the cure of intrinsic cancer of the lary nx It is advisable to remove the larvnx in all cases in which the aff cted cord is not freely in vable

WILLIAM B S 4 M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Corbett J F The Treatment of Brain Injuries J La c 1 1924 1 63

The author di cusses in detail the mechanism of orden of the brain as ociated with fracture of the still. He concludes that in addition to an incre is in the amount of intracranial fluid there must be an intracellular change of a colloud or colloud chemical nature. In treating this condition he has had little sources with intravenous injections of hyperforms the contraction of the properties of the fluid pressure by a mercury manomers.

Extradural hemorrhage hows cin calls the usual latent percol follow of by an increase in the tolk of muscular twitching uncon cio-sness par also and isos of the reflexes. The increase in presert is a octated with rapidly developing papill state as octated with rapidly developing papill between the contraction of the pupil on the sade of the heatorthan thought of the pupil on the sade of the heatorthan thought of the developing papill in the pupil of the developing papill in the contraction of the pupil of the diagnosis is male feature indicated a soon a the diagnosis is male

Fra ler C H Surgery of tl e Pituitary Body with Illustrati e Cases 1 cl S t 9 4 39

PALL R BILLI 1F

The author discusses eighteen consecuti e c es of pitutary tumors from hi record of the past this 1943. All of them represent what we e regal ted approary intracellar leasons for the relit of hich transphenoidal hypophysectomy was perfolmed in this group there we e no operative fatalities from the properties of the p

The associated six, so fineer 1 int raising pristure such as perent headache and vom ting are usually not present in case of put it a 3 lesion and when they are nevulen on man suspect that the lesion extending bey, not the confine so of the confine so that the feath attracts has preepitted on obstruct. I who explains by pre sure on the third entried. At tempts to releve healache b the con ent in all subtemps to releve healache b the con ent in all subtemps and decompression were so disapp inting that efforts in this direction we read at nel 11 graft.

Conclusive evidence a the diagno 1 of pituitarisons 1 usually revealed n the r entire good Actording to Pancoast the dim assons of no m1 sella hould not extee d 10 by 1 mm Wh n th y exceed those dimens on the sella may be ad to be abnormal. The Character of the 1st a do muts us f mportance to the su given ch fits becau e at a leater whether the cod toon a primar 11 alcates wheth r the cod toon.

trasellar or primary extrasellar lesson. On this distinction will depend the choice of operation. It has been the author's rule to operate by the transphenoidal route always when the X-ray reveals the chiracteristic excavation of the sella. The degree to which the sphenoidal sinus's encroached on by the same of the lesson and in forecasting the improvement which may follow a sellar decompre sion.

The ophthalmoscopic examination records optic atrophy more or less advanced in both disks in ten of system cases. The perimetric tests usually show

bitemporal hemianopsia

In the treatment of pituitary lesion, there are three possible controlling agencies viz glandular feeding radiation and operation. The routine use of clandular extracts in the author's cases caused no appreciable effect on the lesion. Some cases of nitintary lesions all respond favorably to irradia For the operative treatment of primary in trasellar lesion the author trongly advocates the transphenoidal route. The purpo e of operation upon the pituitary is to releve the effects of pres su e Occ sionally surgical treatment may be followed also by improvement in one of the other manifestations of pituitary dysfunction. In 35 per cent of the author's cases there was striking im provement in vision and in 3 per cent moderate but sustained improvement. In 27 per cent the con dition remained unchanged or was aggravated The se figures correspond closely to those of Cushing LOYAL F DAVI M D

Ads n A W Ott W O nd Crawford A S A Study of Ventriculography R d l g 19 4

A car ful analytical study was made of a series of cases in hich ventriculography was employed bet een July, 1920 and December 1923 in an attempt to determine bether or not it had been employed as often as it should have been and whether or not its use vas justified by the results obt in d Ther ultsare reported

Of 53. Ca is high were d agnosed definitely or itentatively as brain timons in the Mayo Clime of we op rate! upon Of the remaining 36 opens to srefased in about 50 per cent and about 50 per cent were held under observation because urg ry was not indicated at that time Ventri culog aphy vas used only when there were definite signs of brain tumor, and the growth could not be localized by the other diagnostic measures. In these case ventriculography was found of distinct value t made possible the earl er detection of operable case and eliminated those which ver enoperable.

In a revi w of the surgical cases it was found that

the roentgenograms of the head without ventri culography give evidence of localization in about 8 per cent of the cases of brain tumor

The technique of the procedure is briefly as follows

The patient hes on his back with his head well elevated Under local anæsthesig a trephine opening is made from 3 to 4 cm to the right of the median line and a cm abo e the lateral sinus A trocar and cannula are then inserted into the brain through planes cutting the center of the orbit an I the tip of the ear usually they enter the vestibule of the posterior horn of the lateral ventricle. By means of the trocar which is connected by a rubber catheter to a freely moving graduated glass symbol fluid is removed by the fractional method that is so c cm are removed at a time and replaced by an equal amount of air until the right ventricle is empty The head of the table is then lowered to remove the fluid from the anterior horn. If considerable fluid continues to collect the inference is framn that it i coming from the opposite side. If no fluid appear after the head is turned to the right a second tre phine opening is made over the po-terior born of the left lateral ventricle and the same procedure is followed. The wounds are closed with silks orm gut and co ered with collod in ressin

Reentgenggrams are then taken in the four of rections a he the patient is still on the operating table. The first one is usually made with the left said of the head down on the plate the scond with the right said of one of the plate the scond with the entry of the fourth with the forehead down and the fourth with the forehead down a special head rest is used which clamps the head in special head rest is used which clamps the head in a special head rest is used which clamps the head on a special head rest in the said the proper position. Care it taken to rotate the bead of the proper position for the air is the ventriche the control of the air is the ventrich of the patient of the said to rest in the said which is described in the said with the discribed with the said with the said to fore the air into the aque luct of the fourth ventricle. The air is not removed from the ventricles unless there are definite agins of increased

intracran al pressure

Interpretation of the ventriculograms requires consi lerable study Often the combined evidence of all of the plates is necessary for the diagnosis The se ent; two cases are di aded int two groups (1) those with the symptoms of in reased intra cranial pressure without localization and (1) those with symptoms of slightly increa ed intracramal pres ure In Croup : (forts seven cases) 60 per cent of the ventuculograms were positive in Group 2 (trents fire eases) 64 per cent were post e In twenty four of the thirty cases in which explorate n was done post the sign of a ventricular lesion were verified they were not verified in four and were musical ng in two In the remaining cases explora tion was not attempted because the ventricular find ags or charcal symptoms and cated inoperable les ons or di I not indicate surgeri

Of the thirty three cases in which capl ration was performed removal of the lesion was effected: I ur partial removal in five and a cure in seven. In & stere were glounait a their deprenating or entered ing to the surface these were iterated by decompersion and \times any therapy. There were steme show that within tharty bours after ventrocalegraphy and two deaths much later due probable to the tunor rath than the surgical procedure. These cases are triported briefly were also as the control of the control o

The results in this service of cases demonstrate the vibriculography and in the localization of twoof the cerebrum only when the lumen of the venticless is sufficiently energoached upon and does nothing more than indicate obstruction below the aqueduct or tentorium cerebcli. In some cases there are technical reasons who sufficient are cannot be in jected to give a clear \text{virtual} to protive. In cases of marked internal his direct phalois the remitted for the marked internal his direct phalois the remitted for uponing which the disasses a clear \text{virtual} the dange of imposing whiteless and it is not safe to use: entirectography in localizing therain absects.

It is probable that centriculorraphy should be imployed more frequently than h retofore. It is h a dous ma nly in cases of deep lesions which are yes enous rasks. Bec use of list attendant dangers thould be employed only as an a junct to and firer other methods of a gross have been exhausted. In arriving at a diagnost the surger and the surger of the properties of the surger of the properties of the properties of the surger of the s

Hildebrand O A New Operative Vethod for the Treatment of Chronic Internal Ilydrocephalus in Children (t. n. ne Oper ts nm thode sur B handlu g des Hild oceph lu 1 t. thr d. r. K. nder) A & f. k. (d. q. z. n. 173

The answer to the que tion as to whether hy reciphalus is the r ult of hypersecretion with on hanged outflow or of a normal secretion with obstruction of the outfle h; still not entirely clear 1 pt to the present time hypersecretion due to the choroid pleasus in chronic all opath c hybrid replaint has not been established. On the other hand research has shown in that in many cases of hydrocephalus there is a stenos of a stricture at many points along the course of the outlet can is from the prosecution of the course of the outlet can is from the prosecution of the control of the conference of hydrocephalus in the x rout circuit is on.

Regardless of the cause of the conduit surgeon has a cho co of two procedures (1) reduction of the secretion of spinal fluid (2) remo all or trum ention of the obstruction to the outlow Reduction of the chorout pletus was first tiern; end by the auth r later to Wilms and recently to Leeven and Dandy. In e ery in a new the titrony the same unsuccessful Repeated Particular Circum ention of the obstruction was attempted by means of While Leedmanes of the subcutance uses with

healed in metal tubes and by restoring the communication between the ventricles and the subarchonic space by puncture of the corpus callosum according to the von Gramann method. In the cases of very weak children Heile's method of conducting the fluid of the brain into the abdominal cavity is

As no method gave sati factory re ults. Hilde brand worked out a plan in connection with hi operative method for the correction of Tu mschaedel in atrophy of the ontic nerve. In this I rocedure the ventricle is opened from the orbit, and after the removal of a portion of the roof of the orbit an 1 the dura a permanent communication is established b tween the ventricl and the subarchnoid space and the fatty us ue of the orbit An incision is made alon the supra orbital ridge the soft parts being di ided down to the bone Subperiosteal detachment of the soft parts from the bone of the orbital roof i then done from 1 to 2 cm from the supra-orbital ridge and a window 1 or 2 sq m is cut out from the orbital roof 1 or 2 cm di tant from the orbital margin. The exposed dura is slit a pece is cut a ay from the border of the bon defect and the lateral ventricle i punctured from below with the Gramann puncture tube. The hole in the brain is then enlarged by to and fro mov ment of the tube After emptying of the lateral ventricles the skin vound 1 closed. The child t then plac d n a inclined bed so that the opening in the brain will be the lowest point Later the am operation is carr ed out on the other side

The effect on a child subjected to the op ration on one side was extraordinary. Formerly ther had been a continuous increase in the c reumference of th skull vomiting and somnol nce in spite of re peated puncture of the ventricl After the pera tion the circumference of the skull progressi ly decrea ed vith retraction of the fontanell's ard im provement of the mentality. The operation as performed on the other side two months late was again followed by a marked reduction in the ti cumfere ce of the skull retraction of the fon tanell's and improvement in the mental con lition After seve al veeks there vas anoth relapse and operation was repeated in the first side. The dura which had not been removed vas found adh rent to the orbital connective tissue and as the efore excise! Renewed puncture of the lateral entricles was done and the skin vound cl sed To dat there has been no further relapse RAI HKŁ (Z)

Bagl y C J Br n Absce s with Pathological Observations S g Gyn = Ob! 9 4 xx

The avenues of infection in brain abscess are arrang d in four groups

Goup 1 An e tradu al e tension of the p mary focus. The dur is the most important barrier in the extension of an infection of the tympanic avit, and accessory hasal sinuses. The first stage 1 osteomye lists of the wall of the cavity after this the dura proliferates. Such extradural extension of the pr

mary focus may be accompanied by protrusion of the distended dura into the cranial cavity direct extension from the extradural abscess or invasion from the extradural ab cess along the blood vessels

Group Secondary infection of the brain along the blood vessels without an extradural link. The superior petrosal sinus which receives veins from the tympanic cvity, and cortex of th temporal lobe is an indirect link. The lateral sinus may be a link. It tween the mastord cvity, and the cerchellum. The pathogenesis is ob cure but probably a plat for the probability and the cerchellum creates an extension of the blood current forces in fected material back.

Gr up 3 A penetrating brain injury with infection by a foreign boly which is deep and with or a though at the case and with or a though at the case and in the

Group 4 W superfeal and open secondary, to direct lac ration and infection of brain itssue Such absces c may develop in neglected cases of compound skull fracture vith a surface opening large enough to permit free drainage A localized e cephalit may follow as the result of the prolifera to not the neighboring mesoblastic to sue and the organic ed ura may shut off the foreign material from the brain the resulting abscess being essentially extradural.

The most important factor determining the out come of a brain abscress is the abscress wall. This depends upon the type of the infecting organism and the resistance of the infected tissue. The proliferation of their sure is the fifthous mesoblastic or glial epiblastic. The former is the more effective but does not occur in the deep substance of the brain.

There are four types of abscess wall the dense fibrous mesoblastic it sue wall the fairly firm wall containing some fibrous proliferation from neighboring mesoblastic it sue a wall of varying thickness the result of glial proliferation and a wall showing no evidence of a protect ve reaction

PAUL R BILLING LEY M D

Grant F C Localization of Brain Tumor by
Determination of the Electrical Resistance of
th G owth J 1 M 1ss 1923 lxx 2 69

The electrical resi tance of brain tumors is de termined by means of an apparatus consi ting of a Wheatstone bidge a hobbrain is side four dry cells in se ics an audio of alled to of 1 coo frequency alorest and tabler and platinum needle with two conduction points one at the tip and the other a platinum band I cm back of the tip

In te ts of the normal brain in a series of ten do it as found that the motor cortex frontal lobe and occipital lobe showed no appreciable difference in resistance. As observed by Mever an I Schlucter the ecrobellum was more resistant than the cere brum and the spinal cord more than either. The author did not have the opportunity to compare the cerebrum with the cerebellum in chincal cases.

Glomata and sarcomata showed from one third to one half the normal tissue resi tance and endotheliomata a debuitely higher or lower resistance

The procedure was found of special value in cases in which exploration was autranted by laid, defaute neurological igns but apparently normal cortex presented By the use of the apparatus described it; no sible to locate a subcontreal tume without the risk attendant upon ventrolograph. In the author's opinion the electrical resistance of trisses may be estimated by the simple apparatus described with sufficient accuracy for clusted work.

Vickenzie k G and Sosman M C The Roent genological Diagnosis of Gran opharyngeal Pouch Tumors 1 J R e It of 9 4 W 71

Crance harrigeal powch tumors are fr quently revealed by the appearance of characture wholes In a recent general study of thirty five verificaces of such tumors, the characteristic calculations was noted in 71 per cent. This was delicate and apongy in appearance and irregular in formation. Unlike that in intractanal aneutroms and detmo of it of all not not yet a considerable and the control of the control of

The outline of the s lik was abnormal in twenty, sewen cases, for per cent. Usually the abnormality consisted in enlargement of the fossa with irregal larity and depression of the floor. In twenty six cases there was destruction. In main this was immed to the po terror clausoff but varied in degree. Generalized pressure e idente? It would continued attorby was present in a venticen cases and ettiren by make the subject of the continued attorby was present in a venticen cases and ettiren by make the subject of the continued with the subject of the continued with the subject of the subj

Gordon A The Diagnosi of Occlu 1 n of the Posterior Inferior Cerebellar Artery If d J & R 19 4 c 46

The author reports a case of oc lus on of the posterior cerebellar arters and a alizes the symptoms on the base of the relations of the artery to the adjoining nervous structures.

The posterior cerebellar artery as a rul supplies the inferior surface of the cerebellum the superior surface (in part by its anastom es) and the l t

eral a pect of the medulia
In the cale reported the onset of the conit in was sullen Motor distribunces in the arm and shoulder

in the form of ataxia and asynetiza occurred on his doe of the lesson but were tran ten Senson disturbar ces of the syringomy clic type were prevent over the lower two division of the tirgenium the neck the upper thorax and the aim on the opposite sade Symptoms referable to the glos sopharyngeal and vagus nerv s such as difficulty in swallowing impartment of sens tion and pirally as of the cut palate and of the pharma were also as of the out palate and of the pharma were also makehees.

The lesson embraces th nucleus ale cinerex the nucleus of the schitary bundle the nucleus and include the descending root of the trigeminus and Govern et a tract

In the author's case prolonged status difficulty in speech and marke's sympathetic involeme is were lacking According to Walfer improvement in the difficulty in swallowing would each ie the diagnosis of occlusion of the vertebral arter.

RILLIAN P LAN RECEVE VID

Aimes A and Guibal A Ob erati ns and Autopsy Findings in a Case of Occipital M nin gocele (Obset 1 t p 1 at pse d mén g èl occ ptal) Res do 15 p 19 4 x

The authors topo to case of hand stud occip bit men agociels in an otherwise apparently normal men and the studies of the stud

Becau e of the zee of the tumor and the fragibly of the large ir gular scar on the pasterosuperior surfaces condary to del ery, or I tunn has advised. The longitud nalinosis on the cleatesis and othersor Dunnig subcutaneous councier ton from the extension appaid the sac ruptured and from 800 to 000 for of tare natter escaped. The cas into he d asmooth notionious gray lining and critical to the continuous gray lining and continuous gray lining and to the best interest of the skull. About the outlet a, r doubting higher fields A rate is true of the mention of the skull. About the outlet a, r doubting higher fields A rate is true of the period of the peri

suture!

The infant's condition was fall able until the fourth day after operation. If we not prost tion with your ting then de liped and de the curred on the sixth day.

Autopsy to early it to occupital bone at the le of the nt mal occupital protuber net a steally chongate lopening measuring 11 by 9 mm. The bone diges were blunt egular and symmetrical

other malformation was found Histological examination she et the wall of the tumor to consist of skin dermis and meninges no recognizable nervous elements were seen. The finger like folds near the outlet were menume all tessue.

The authors regard the tumor as a pure meningo cele of a very rare type WALTER C BURKET M D

SPINAL CORD AND ITS COVERINGS

Hurst A F Addison's (Pernicious) Anæmia and Subacute Combined Degeneration of the Spi nal Cord B it M J 1924 1 93

The term Addison's anæmia is used by Hur t because the first characteristic description of perni cous anæmia was written by Thomas Addison in 1849 The adjective pernicious is avoided be cause it is misleading and has a depressing signifitance to the patient

An invariably associated finding in the condition under dissussion is gastric achylia. The color index is frequently high but the blood picture may be easily confused with that of secondary ana.mix liperbilintoinamia determined by van der Bergh action in sently all asp present ind a curve of the rection in the red blood corpuscies plotted by line for the red blood corpuscies plotted by line for the red blood compacting the red blood by the color of the red blood compacting the red blood by the color of the conditions and a mean diameter greet entance to the new the satisfies and cascerhators of the condition.

Substitute combined sclero is of the spinal cord in aviring degree is found on neurological examination and at autopy in from 75 to 80 per cent of the case larrly frequently, cases of combined sclerosis dei lop without findings of anima but the feature intensit invariably becomes apparent later some intensity in the school death. Ach) la ho ever intensity in the school death and the school death and in the control of the school death. Ach with the school death and in the school death ach in the school dea

tabes dorsalis 11 per cent and in persons with car

cin ma of the stomach 46 per cent The atroph c glossitis which is so I equently an important factor in the diagnos s and the finding of focal infection lead to the supposit on that the cau e is an inf ction. This was borne out by the author's experiments in culturing the duodenal content and runn ng a control series in other achilic condit ons and normal and it f ctious cases in whi h fre cili retained The hamolytic trept scor u longu was recovered from only 10 9 per cent of the 1ft) s t control cases but was found 1 all ten c s s of Ad lison s anomia and in five ca s of sub cute combined sclerosis This important d monst at on lead to the logical conclusion-support 1 lo by the report of seve al cases of the famil I occurre ce of the two m ladies-that the 1 t al 1 fection occurs in congenitally achylic persons bec u e of the ab ence of the germi idal age t in the t ma h It uggests alothatt of nsaelle ton arang P portions the property fith o e being hamolyt

and that of the other neurotoxic Remi sions are explained on the basis of partial or complete cessa tion of the toxemia rather than on the basis of megaloblastic regenerative activity of the bone mar or since during remissions the marrow reverts to

a normal appearance as Zadek has shown by biopsy on the tibia in variou phases of the disease

on the tions in variou phases of the disease With regard to the treatment of Addison's an arma and subacute combined sclerosis mention is made of arsenic charcoal pepsin lactic acid milk direct blood transfu ion and splenectomy but special stress: I shid on the use of at least 6 gm daily of properly diluted hydrochlorid acid and an autog enous vaccine prepared from the streptococcus solated from the duodenal contents or from the teeth or tonsil. The author has seen considerable improvement result from this treatment even partial return of supposedly lost nervous function.

LNUT II HOLCK M D

Mixter W J Tl e Importance of a Complete Ex amination of the Ce ebrospinal Fluid in Sur gery of the Spinal Cord J 4: M 1ss 1923 lex. 66

Besides the routine neurological examination in suspected cases of cord turnor and other conditions causing chronic spinal cord compression emphasis is placed on three pre operatice procedures

1 The determination of localized signs in the spine such as pain on pressure slight kyphosi scolosis local rigidity and pain on coughing and snicezing

Stereoscopic examination of the spine after a tentative Jiagno is of the level of the l sion has been made

3. Complete examination of the spinal fluid Il lumbar puncture does not reveil e ulence of spinal block, or if on the other hand definite find ings of complete block are obtained eistern punc ture is not indicated. This shoull be re-orted to only in que tionable ca es of incomplete block. In these comparative manometric and quantitative protein d terminations will determine the diagnoss. In cases of uspected cord tumor high or low lumbar codest simulations are multiple selerosis localized degenerative more are multiple selerosis localized degenerative more are multiple selerosis localized degenerative more are multiple selerosis localized degenerative.

Double nuncture as done in forty two of eighty one c sets of suspected cord tumor. At operation a lesson as found in thirty one in which a positive d gnoss had been made and in one in which the diagno is was negritive. Of the cases in which no lesson as found eight had a negative diagnosis and one a positive of aymo! Ever It Hotes M.D.

L ndberg L Experiment with Ventral Plaster Molds in Cases of Laminectomy (Ves he mt (c Gp bett a b L mu kt m) A t b t Sca d 1923 l 1 386

The author advocates the use of a ventral plaster mold after laminectomy to prevent injury or irrita tion in transportation. The mold extends from the mid thigh re ion to abo eithe head and has a window for the face and umbilical region.

WILLIAM P VAN MAGENEN MID

PERIPHERAL NERVES

Miller E. M. Late Ulnar Nerve Palsy S rg Gyn c & Obst 1924 x 1 37

Late ulnar nerve pal y practically always follows an elbow fracture in early childhood. The fracture tegins laterally below the epicondyle and pa ses obliquely downward and inward into the joint causing complete separation of the capitelium. The latter is displaced laterally and forward and is twisted outward. Not union results and as the growth of the humerus on the lateral side is thus interfered with a cubitus valeus develops. This increasing deformity causes the obseranon to im pinge against the medial condyle the ulnar groo e becoming shallow and the nerve displaced from its hed where it becomes subjected to stretching and slight frauma. In the majority of cases the condition is noticed between the twentieth and thirty th year after the fracture

One of four methods of treatment may be followed

Correction of the deformity by a cuneiform

osteotomy of the humerus

- 2 Simple liberation of the ner e from its bed 3 Liberation of the nerve and its replacement in a new groove made by the removal of a wed c shaped piece of bone and lined with an aponeurotico fascial flap.
- 4 Nerve transplantation to the flexor s de of the cibo v

The first and last methods are the pro-edures of choice. The author reports ten cales. He on cludes that such fractures should be operated upon in this linear tenth of the manipulation. Part R BILITAGIEN M D.

Chiasserini A Experimental and Clinical Contribution on Network Transplantation (k. eric permitti e cutilut i o in trap situb tridineri) Policia Rome 193 x e hr 480

The author pr c his views on nerve transplants ton and reports the case of a solder who rece ed a se ere injury in the antecubital i saw with severance of the med an nerve. At operation me sear later the scar as exposed and tax ed and the deletable of the delay of the search of the

Chassenni s of the opin on that it i not neces sary to employ foreign substances such as fat strips of fascia or pres r ed artery will a nerve transplantation and anastomos s. If the muscular bed in which the nerve juncture lies is free from blood enveloping substances are unnece sorty. From a series of thirty-one experiment in nerve transplantation on does the author drives the follow

1 Fransplants of sections of a nerve trunk pre

ing conclusions

- served in alcohol take without causing react or 2 The transi lanted section becomes innervat do by the nerve fibers of the proximal end but the maximum down growth of fibers requires at least
- sever I months
 3 After union has occurred there 1 definite im
 provement in the motor function and the trans
 planted portion responds to electrical stimulation

4 The transplants may be kept in 60 to 70 per cent alcohol but not for too long a time (no dennite time is specified)

5 The transplants should be washed in narm water belote u e

6 There must be complete harnostasis in the area which is to serve as the bed of the transplant 7. The transplanted nerve bundle must not be

less thick than the injured nerve

8 The nerve sheath should be sutured with
Carrel with

o The us of forein substances such as fat fascal and sections of blood vessel all is unnece sary to If improment has not occurred by the end of the first month the trans lank should be re

examined in a fu If adhesions are extensive the use of artery wall tissue is recommended.

Takes V Ricci M D

R yle N D A New Operati e Procedure in the Tre traent of Spastic Paralysis and its Experimental Basis M d J Aust also 10 1 77

The most important factor n the product n of the dash blites and deformities of spating pages 5 mm cular randity. The author set harself the task of determining (1) the fur ction of the non-medulisted symp thete of fibers which supply volume to you can do not the non-medulisted symp thete of the sa which supply when to you can do not have a supply the same that the control of the same that the same tha

The and shall all high reference we see that the open one of an animal and the core pended so the core pended so the core pended so that the core of the core pended so that the core of t

These experiments we c applied to two cases of pastic paralys s in man. In the first case a gunsh ! und had s injured th c rebr ! cortex as !)

produce a right static hemipleria and pastic paralysi of the left leg an I foot. The right abdomi nal sympathetic trunk y as exposed through a para vertebral approach the white ramus from the second lumbar nerve was divided and the gray rami to the second, third, and fourth lumbar nerves were avulsed The fourth lumbar ganglion was then identified and the trunk divided immediately below it Fifty four days after the operation the patient was able to relax the formerly spastic right limb normally when walking and there vas no sign of abnormal tone in the muscles of the right lower limb

The second patient had had a right spastic hemiplegia for fourteen year. The cause of the condition not given. The gray rams to the roots of the bra chial plexus were avul ed Fourteen days after the operation remarkable improvement in voluntary

control was noted

The most obvious change which followed these ope ations wa the diminution of rigidity vith im med ate return of muscular control Immediately after the operation there vere va omotor di turb

ances but the e quickly disappeared

Foerster's operation deals with afferent fibers and the results obtained may be due to interference with afferent sympathetic fibers Since the entire afferent supply cannot be destroyed the spasticity tends to recur Stoeffel's p ocedure attacks the periphe al nerse with the purpose of reducing the amount of nerse supply to contracted groups by mg athetic ramisectomy involves the destruction of afferent fiber and thus prevents the discharge of impul es from the central nervous system into the affected LOYAL E D I M D

Platt II and Bristow W R The Remote Results of Operations for Injuries of the Peripheral Nerves B 1 J S g 9 4 1 535

Before proceeding with the desc pti n of the re ults obtained from pempteral nerve oper tion the author reviews certa n fundamental conside a tons which have a direct bearing of the tud of the va ious I ctors which determine the su cess or failure of operative repair

P II ge esses of erre In the geter number of cases of nerve injury th 1 1 n b long to the prima y class and the c 5 gro 1 tructio imm liate loss of anatomical ntinuity. To this p imary destructive if to add d the nilu ne of noun I infect on Furth le tru t on of ti sue takes place in the course of th flammato y react on which f ll s With the onset of healing and the productio of you g sca 1 ue a still further obliteration of ners ut tne cur When the scar tissue h s b om full m t re l it has built up a barrer hich eff cti il pre nts the gowing aron of the proximal tump fr m re ching the d stal stump

A more insidious type of dam ge don during the time the nerve hes b thed the nflamm tors exudates Bacte ia and th r t uns p ss i to the interio of the nerve tru k a i asc 1 fo

distance above the limits of the initial lesion. The result is the develorment of an interstitual neuritis and the final histological picture shows a fibrosis involving the connective tis ue framework bety een the nerve bundles and around the individual nerve fibers Such an extensive interstitual neuritis everts an inhibitory influence on the regenerative process There are three main types of nerve injuries (1) complete division with a gap (2) complete division without a gap the nerve trunk retaining a pseudo continuity (3) local alterations in the contour size and con istency of the nerve trunk which i ap narently intact

In addition to local changes a nerve injury pro duces distant effects. When the continuity of the axis cylinder 1 interrupted and particularly when the mury is exten ive or the lesion is situated high up on the proximal course of the nerve early re trogressive changes take place in the central spinal cord cell More peripheral di tant effects include simple di use atrophy which is most evident in the muscle bell es Trophic chan es dep ndent upon irritation of vasomotor and sensory axons v bich still retain their integrity combine to complicate the pathological picture Particularly in gunshot bano f brotic changes develop in the tendon

sheaths and joint cap ules in regions remote from the point of injury Operation to the que The accepted stan lardized

proc dures in the operative repair of peripheral

ner e injuries by direct end to end suture may be class d as follows 1 Wide anatomical expo ure with free mobiliza tion of the pro imal and di tal parts of the nerve

t unk 2 The additional relaxation of the nerve afforded by chan ang the posture of the lamb

3 The stripping up of motor branches ari ing proximal to the lesion from within the nerve sheath hen necessary the deliberate acrifice of one or more branches

4 The displacement of the nerve to a new bed to shorten its course

The t o stage operation in which after full exposure the untrimmed central and distal stumps are d a n close together by stout sutures and the yound is closed Subsequently it may be possible to fr shen the ends and to do a direct suture

6 Bone shortening The is indicated only very rar h

It the line of suture the nerve ends should be in bare contact under slight tension without cro vding or eversion of the fasciculi Sheath sutures alone are des rable A stay suture pas ed through the entire th chness of the nerse trunk should be avoided Wheneve possible the nerve should be placed in a bed of healthy muscle tissue If this cannot be done a small sheet of fascia placed beneath the nerve will be found the best protection

In addition to end to end suture neurolysis and the small group of operations best described by the term bridging there are other operative procedutes designed to restore conduction. Besides the attempt to ristore conduction within the nerve trush operations may be undertaken for the rel of of pain and other irritative phenomena and to restore function in cases of irrejarable lesions and in complete retoo eri.

The greate t length of time after the receipt of the thight; that a good result may be hoped for from operation is three years. The harmful effects of long delay depend on the development of perspheral and central retrogressive changes. The perm neat degenerative changes who do occur in the muscle belies after prolonged deneration render thes structures less capable of assuming function even though neurotration may be established at a later due those et al. They are left in the best possible out dition by beat mas age and electrical stimulation the outlook; i improved

In many cases of nerve myur, belonging to the category of compress in lessons the sum at removal of the compressing apent (neurolys) is rapidly followed by the reapperature of both conductivity and fun ton. This means that the loss of conduction has not been a sociated with degeneration of the ampresent for a con-identification of the ampresent for a con-identification of the conduction depends on the occurrence of regeneration clones and the obstacles to full spontaneous repair are situated in the inter of of the requestion. There fore when the cuse of the trauma is removed at a fit estage there is no certainty that complete residence in the stage them is no certainty that complete residence.

To a transform to the complete the complete by the means of a flap turned dot in for the proximal to find state for the condition of a flap turned dot in for the proximal to find state for some turned and the condition of the c

pl us nd of the facult ner c. Clin calt const state r S c. al clinical const state r S c. al clinical facilities for failure of neric sature operations. On the most side substitute muscle most emets gave r et or error for example following complet division of the median and ulmar nerves in the upper arm the tool of the median and ulmar nerves in the upper arm the constitution of the median and ulmar nerves in the upper arm the tool the median and ulmar nerves in the upper arm the tool the median and ulmar nerves in the upper arm the tool the unstable to the constitution of the median to the upper to the tool the upper tool the tool the tool the upper tool the tool th

pumprise.

All tatistics show that recovery is most complete
and occurs mot frequent in the rad all nerve
Almost perfect restoration of function but a consider
able number of cases has been reported for example
it was obtained in the early of this y seven cases re
ported by Stopfor!

In the ulnar nerve results have been phy log cally imperfect but not necessarily poo con m

scally Similarly the end results in the case of the median nerve have been un formly dispositions chedy because of the extreme function appearance ment consequent on the inadequate recovery of seas bility. The neurological and economic results in the case of the scarlar pers of have been consistently poor. The preentage of complete failures in repair of the extremal populated inever has been high but in 1 number of cases very complete recovery last resulte!

Neurolysis resection and suture the intransural impection of alcohol posterior root sections and penantenal syntathetomy have been employed to releve the pain and other strustive phenon at due to p ripheral nerice! I soon Clinically it is of the greatest importance to differential between the pain of true causal is and that evoked by study to not a recovering nerice area. The operation of Leriche (penantenal sympatheticismy) has gained few al hereins in Eucland

It must be remembered that war injuries are almost always complicated by sepsis while injuries in civil life have a vasily better provinos. The experience gained in ner e surgery in cases of war injury has led to improvement in surgic it eah ng

vement in surgic I tea h ng
Loyat L. Da is MD

MISCELLANEOUS

Wilson 5 A K Trauma in Eti logy of Organic and Functional Nervous Dis ase J Am M As 9 3 letz

To say that trauma is a major etuological factor nervous di ea es is ee geeration but mot enters mention it as at lea la pe l'insposing oue and est cases of their own and from the interture to substitute their contention. If a present date removire and industrial development this ubject has give incre uso, importance because industrial in urance common-armer lituation and arrisk in trance has brought it into the foreground.

As a basis for refuting the ole of traum in nervous disc see the author quotes statistics from easualties in the recent war. These sho fir that o gain there ous fisca e d eloped in err f i of the large number of cases f possible injury of the central net on s.y tem and eccri that then the did develop the harory ho c.l the influence of the central net on the central net on the postalistic of in the central net of the central net on the post that it is not the central net of the central net of the post that it is not that the post that it is not that the post that it is not the post that the post the post that the post that the post the post that the post the post that the post the po

The organi maladis et ing mot then on in this article art diss minat did on a rebrail tu mors neuross philis and pig v The more an orangon types of less is and the pich see remention d only brefth.

The remarkable a reast in reports of functional discase as a squel of taumable are mumber of compined in the large number of compined in lams following railroid a cidents. Whether conclusions of un constous the motion compensation—to show no to be the district manifestor in the diagno.

L UT H HOLK MD

Auerhach S Neurological and Surgical Observa tions on \eurosurgery (\eurolob sches u d Ch rurgi hes ur \curocl irurgie) Dei tsche Zischr f her & 1923 lxxxii 303

Lumbar puncture is apparently a harmless proredure but should be resorted to for diagnostic or therapeutic purposes only when it is distinctly indicate I since besides its disagreeable after effects

it has sometimes been followed by leath

I rain or ventrical nuncture may be use I for diag no tic purpo es when roentgen examination has faile I to sho the location of the lesion With regard to brain puncture the author's a lince is first to make a mall inci ion in the soft parts un ler local anxisthesia and then by means of Doyen's instruments to trephine an opening about o cm in diameter in order to be certain to avoid a inus or

diluted year after exposure of the dura

Decompres we trephination should be under taken only v hen it i impossible to locate a tumor by topical liagnosis or brain puncture and when tre phination will relieve symptoms due to int acrani I The author liscu es also two other procedures for the relici of pres ure Bramann's cal losal puncture an I Schmie len suboccij it I punc ture A disa I antage of the callo al pun t re i the gap made in the corpus callo um the largest and most important bundle of association fibers between the two hemispheres The suboccipital puncture is more conservative as it leaves the bone intact and does not injure the brain. In the author's opinion the only in lication for either of these methods is an increase in the intracranial pressure caused by the accumulation of fluid Callosal puncture he regards as indicated in hydrocephalus of the lateral ven tricles and suboccipital puncture in cases of accumulation of fluid in the fourth ventrick

For tumors of the cerebell pontile angle hemi-crani ctima as recommended by Berchardt is the most promi ing procedure. In all operations on the skull and spinal column the least lamage is inflicted by the use of the hand tree hine and Dahlgren's for cep I'le hammer and chi el should not be em plove I

The author belie is that I ecause of the danger of res tratory paralysis in operations on the skull or spinal column the patient should be place I on his St le

In cases of very severe traceminal neuraless. Auer I ach prefers re ection of the base of the skull and exci ion of the greering ganglion to the injection of

alcohol HELLER (7)

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Battle W II The Clir ical D agnosis of Carcinoma of the Breast La et 1924 cc 1

To wait for the textbook signs of carcinoma of the breast is as dangerous as to wait for loss of hver dull ness in cases of perforate I gastric ulcer Central hardness in a breast tumor is the primary

and early attribute of carcinoms. It is simulated in this respect only by ostecohordrossrcoma chondro sarcoma and sel rosing tuberculous mastitis. Elia tricity. Jacking, Irregulanti of outline and nodula tion of the surface are other characteristics. On ection critilationus resistance to the halfe a hard edge and cupping of the surface are noted Second any characteristics of here it carrinoma are thinsing of the overlying it uses alteration in the outline and of the overlying it is alteration in the outline and of the overlying it is alteration in the outline and of the overlying it is alteration in the outline and of the overlying it is a situation of the outline and of the outline and the outline and the outline and the lake of or bifully of the tumor in relation and the lake of or bifully of the tumor in relation

to the rest of the breast tissue

Hardress rather than a slight increase in size is a

enterion of lymph node in olvement
Conditions to be differentiat d from early care

noma are cysts fib o adenomata and patches of chroni information. In chronic inflammation the skin lymph nodes or pectotal fascia are not involved and tenderne 3 is more apt to predominate

Tuberculous mastiti with sinuses ulceration thinning of the skin and pigmentation can usually be differentiated from cateinoma

Actinomy cosis may be diagnosed on the basis of the characteri tie g afulles from the abscess

Gummata of the breast occur both as solitary and multiple tumors with or without adjoining health; breast tissue

The author agrees with Handley and Cheatle that Paget's disease is carcinoma and is primary in the

breast epithel oma
Acute mamriary care noma presents the peture
of an enlarged projecting fixed tumor with the skin
over if dull red hot exdematous and fixed
WHILLE PLAN BET MD

TRACHEA LUNGS AND PLEURA

Lambert A V S and Miller J A Absces of the Lung 4 h Su g 9 4 Vn 446

Sixty cases are reported forty, six of which were acute Emphasis is placed upon the need for greater acturacy in different ating between acute pulmo any abscess chronic pulmonary abscess and similar road tions. It is generally believed that is mistances pulmonary abscess follows preumonary which necrosis and 1 quefaction supervine. In

twenty two of the authors cases the abscess of the

The interstitual tissue of the all coll being infected there is a point breaking down of the infill minator products without any stage of evudate pneumon a. The history in such cross is of a not very acute podromal petrod of usually less than a verk

Bacteriological studies of ten cases in which examations were made of pus obtained from the abscess at the time of operation received the unform presence of anyrob c bacteria. The suphors attempted to produce lung lesion in un-less by the intratracheal injection of these anierob c or ransisms but the results were necative.

These cases should be handled on a combaned medical and supreal serve . Med can management should be tred first and may be continued for a period of three or four weeks. The sh uld const of rest and postu al dramage the latter carried out daily as often as indicated. This method extends the indication for expectant treatment and in its operation extentially proves necessity per as the patient for it by relie ing the acute symptoms and improving the general condition. The latter should consist of incision and d amage performed in or staged it in pleared cavity is salled off by abbes one stopped to the contract of the contract cavity is salled off by abbes one should be used when possible. It is important to the day and under the same stage of the large street of an above.

Lobe tom hile theoretically the ideal treat

ment carnes too h gh a mortality

In the group of case reported artificial pneumoth rax 1 as us d ery lattle. Ho ever the authors believe it should be considered and tried the the absc ss 1 centrally located and I as free dramage In cases of peripheral abscess es ts use is danger us because of the risk of rupture of the lung and s con dary proportionals.

Bron hoscopic la age whi h was used n only three a es gave n lift rent r sults. In cases of suspect d f reign body b on h copic ex mination

s of the gre test importan e

In nine een cases the absc sf llo ved pneutnon a in ei ht ton illectom; n t o th e traction of a tooth and n one th ni alation of a foreign body

The duration of the die se is of engreat on portane. In the stay the case, so if is it his not month's duration 60.8 p r c nt ere urd and the mortality is 2.8 per c nt. In t ent), the cases of one to the month's du ation 20 per cent were cured and the mortal's as a per cent. In the case of more than at month's duration 20 per cent were cured and the mortal's as per cent. In second that cured and the mortal stay are considered and the most liy was 42.8 p r cent.

The results in the complet series of sixt; ca eswere s follows cured twenty six improved six unimproved eight deaths twenty (a mortality of 31 3 per cent) The medical mortality was 3 2 per cent and the surgical mortality 5, 6 per cent S C Lyons MD

Hedblom C A Graded Extrapleural Thoraco plasty in the Treatment of D ffuse Unilateral Bronchiectasis Arch S e 1021 vi 407

In the surgical treatment of bronchiectasis the principles have been drainage extirpation and collapse of the lung In the earlier cases when draining was attempted the mortality vas very high and improvement was obtained probably only in cases of localized saccular bronchiectasis in which the procedure may be indicated. Theoretically pneumonectomy is the ideal operation but it has been considered suitable only in a selected group of joung patients Among such selected patients (re ported cases) its mortality has been 47 8 per cent and it has given a cure in less than 20 per cent Col lapse therapy includes e sentially artificial pneu mothorax and extrapleural thoracoplasty Pneumo thorax collapse is a relatively safe procedure but must be continued for months or year Even then it has yielded only a small number of the reported c res and in a high percentage of cases empyema is a complication A single stage extrapleural thoracoplasty has a high mortality but many cures have Leen reported

In a series of ten cases of diffuse unilateral bron chiectasis herein reported extrapleural thoraco plasty was performed in from four to seven stages under nitrous oxide and oxygen anysthesia followed by alcohol injection of the intercostal nerves to minimi e the pain and the voluntary postoperative inhib tion of coughing Thus far there have been no deaths Six patients have good general health Three of these are practically free from symptoms three rai e from 30 to 60 c cm of sputum in t enty four hours and one has symptoms and s gns suggest ing extension of the infection to other portions of the lung but raise only about 60 c cm of sputum in twenty four hours None has shown disability or marked deformity Three patients are still con

On the basis of comparative r sults therefore graded extrapleural thoracoplasty seems worthy of consideration in the treatment of diffuse u slateral bronchiectasis Its relative safety makes it ad pt able to most cases

Matas R Remarks on the So Called Mediast nal Septum of the Dog in Relation to ti e Pneumo thorax Pr blem in M n A / S g 9 4

Ji6 Graham E A A Reconsideration f the Question of the Eff cts of an Open Pneumothe ax of the Eir cts of the Style of

Maras deals with the sal ent points in the com parative anatomy of the mediastinal septum of the

dog which have a bearing on the surgery of the me least mum in man. He call attention to the fact that a dog die quickly after one of the pleuræ is opened widely unless it is closed at once. The reason for this is that both lungs collapse and the re pira tory function 1 interfered with and finally arie ted

The chief subject of contention by the various investigators is the interpretation of the mechanism by which the bilateral collapse of the lungs 1 pro duced when one pleura is opened. Matas reviews h s own inve to ations of this subject and the results of other workers Until the past year he was of the opinion that there was an inter communication of the pleurae Recently however he made a careful study of the pleure in dogs by a number of di sections and arri ed at the conclusion that from a purely anatomical vies point the contention of Graham that the pleura of the dog are separate and in dependent serous sacs is morpholo ically correct Nevertheless he does not believe that the medias tinal septum in the canine species is anatomically and physiologically analogous to that of man

Matas concludes that whatever view is accepted as regards the pleura: n does the conclusions of experimentation on the dog vithout artificial aid to re piration cannot be applied in their entirety to the urgery of the thorax in man In the animal the mediast nal veil is merely a film a potential partition while in man it i a composite anatomical all h ch is olidly rooted in the chest through the attachments of its pericardial supports to the diaphragm

GRAHAM re se s the results of the work on pneu mothorax he reported with Bell in an article pub lished n 1018 The conclusions drawn at that time ere as follo s

- I Whenever a change of p essure is made in one pleu al cavity there is a change in the other to almost the same extent
- 2 Death in open pneumothorax is usually death from asphyxia
- 3 The size of the opening is of importance and of particular importance in this connection is the v tal capacity as persons with a high vital capacity can withstand larger pleural openings than those

with a low vital canacity

- 4 Bilateral open pneumothorax is not fatal if the openings are not too large
- 5 An important factor is he marked loss of heat which usually accompanies pneumotl orax
- 6 In large openings there; al o a crious disturb ance in the systemic circulation
- The maximum non fatal opening of the chest all h ch a particular patient can withstand the vital capacity being known can be expressed by a mathemat cal formula

8 The presence of adhest as or of thickening of the mediastinal structures materially chan es the effects of alterations of pressure in one pleural cavity The criticisms which have been offered by various

surgeons to these conclusions are again answered They have been directed chiefly at by Graham

the mathematical formula and the question as to the

pleural cavities of the dog

In Graham's opinion the theoretical maximum opining which a normal per on can endure is a matter of detail rather than of principle Graham has used the formula to expres an approximation. The munifact remains that in persons with a very low vital capacity a relatively small opening will be fatal.

The author has repeated a cross of experiments including disections and injections of air and faund into one [feural casts to discover whether they ever transferred into the other He is still of the opinion that there I no communication between the pleural castities A serie of roing a grains are presented which support in contention regarding junistated power discoverage of the property of the p

The work of Snyder in which sodium b omide solution injected into one pleural cavity of the dog is as shown in both pleural cavities by the roentgen ray in myely a demonstration of the phenomenon of

d alysis

In conclusion the author states that his original observation on open pneumothorax as reported with Belin 1918 were true in principle

Sayner reviews the literature on the subject of pheumothorax and reports an e perimental study on the pressure relations on the two ides of the thorax in the dead and his ne log and the human cadaver. He in roduced a nee ile attached to a water. manometer at symmetrical points into the two pleu ral cavity injected air and solutions opaque to the roentgen ray into one pleural cavity observed the fluctuations in the pres ure on the to sides as re co ded b the manometers and made rorntgen ray plates at various stages of the experiment. The arts ele contain simultaneous ky mograph tracings of the intropleural pressures on the two sides duma the injection of me sured amounts of air into one pl ural cavity From these experiments the following con clusions are drawn There is an except al difference in the mobility

of the rechastinum in the dog and man

2 A ch u₀e in the intrapleural tension of one pleural cavity produces a corresponding change on the opposite is le but of different degree. The meiastinum of the log is freely mobile and as it is also freely permeable to air and I quids there is v-reexact equalization of the intrapleural tension.

3 Unilateral pneumothorax is an impossibil to in the dog since bilat ral pneumothorax results be cause of the permeabilit of the med astinum.

S C L₂₀ M D

Lilienthal H. Mal gnant Ti mor of the Lun Necessity for E rly Operation (A S g 10 4 N µ 3 8

The may rity of cases of mal guant neoplasms of the lung reach the sur con only after the di case is well ad need and there a e qually hazardous secondary complications. The author the clore urges the more general v of the roent on tal and the bronchoscope in the lagnosi of tumors of the

Lung tumor may have their origin in some part of the bronchial system usuall a secondary bron thus or in the parenchyma. These developing from the bronch; show cylindrical or cubori cells and the e art tog from the parenthyma show parement cells In cases of tumor of brenchial origin there is early cough becau e of the endobronchial irritation. The cou h is at first dry later it produces gla ry sputum and subsequently pink putum mi ed with saliva Actual hamopty is is rare. Later the lumen becomes obstructed and bronchectatic dilatation with a profit e putted discharge de closs. Penbron had ab-cess's and suppurative pneumoniti usually follow. In cases of cancer bring its one o in the afreol r portion of the lung th initial sign may be the cough due to secondary in asion of the bronchi by direct extension Tumors of the tyre may grow to a large size and occupy a large portion of the lune without can ing any apparent import ment of function

The roenigen ray examination demonstrates the parenth-matious infiltration by cancer at a very early stage in its de elopment. The h t sy with the 'N ray findings is diagnostic enough to warrant an immediate exploration; thoracotomy. This operation is not very perfulous and lobetomy under such conditions should not be accompanied by a high

mortality

The type (i malignancy which or gnates in the bronchial wall usually begin at a considerable d's tance from the main bronchius. In the earth stages the roentgen ray is of little help. Bronchos.op, will ge a direct wew of the tumor and will make it poss ble to remo e a peciment for diagnosis. These tumors shoul it rescond to lobection. The

These tumors shoul i respond to lobettom. The properts for cure are excelent. In the authors opin on lobettomy for lung tum is stoud not carry a very high mortality as compared with lobet tomy if i support two conditions. The racotom is justimed by the fact that frequently, noperable case are benefited by the simple opening of the thorax and to no to it no to it not be a bas have resulted.

S C I ONS 31 D

Evan W. A and Leucutia T. Deep Roentfen
Therapy of Neoplastic Fulmon ry Meta lases
1m J R 12 n l p24 x 35

Deep ountgen therapy is indicated in all cases of m tastatic malgn ncy of the chest in wh h n m tastases can be demon to t d in the re t of the

Although as a rule the tumor to wes show feere 5 ng sens t eness to repe ted rad ation the normal lung tis-ue itself shows lef nitely increasing ser 1 to eness

In the treatment of metastati sarcomata the m sphol acal and h to net stru ture of the turn mu t be on id re! The best results are obtained in the embryonal type of sarcoma (a) osarcoma) The fibroblastic adult type of tumors e necially those which are rich in paraplastic struc tures are refractors to radiation. The nearer the earcome to the undifferentiated embryonal type the better the chance for success and the nearer it is to the adult tumor which is rich in paraplastic struc ture the less the chance for success

In cases of metastatic carcinomata the circum scribed mediastinal metastases and the infiltrating lymphatic metastases respond vell to treatment especially when the prima y carcinoma is of the dif ferentiated type. The militry metastases of the car cinomata if localized re pond well to treatment but if they are generalized the prognosis is very unfavor

Complications may arise incident to the treat ment of metastatic processes of the lungs (1) hæm orrhage of the lungs (2) rupture of the lung vith consequent pneumothorax (3) changes in the nor mallun ti sue

If the dosage is not exceeded or if there i only one exposure the lung changes are temporary consisting in infiltration but if the dosage is exceeded and the arra lation is repeated several times the change may be a permanent fibrosis of the lung

In the treatment of mahignant metastases of the lun s the necessary biological dosage of radiation should be administered to the tumor tissue itself but at the same time the normal lung to suc should be protected from injury Therefore an attempt should be mad to eradicate the di ease in a single treat ment The treatment should be repeated only when this is impossible. A third or fourth irr diat on should never be applied to both lung fields

General stimulation of the protecti e forces of the organi m is an indispensable part of deep roentgen treatment

No statement can be made regarding the final out

come of these di eases as the authors obser at ons have been limited to a period of one nd one half MD) ears **Ва и В В тти**

Il rt ler A E A Chronic Traumatic Empyema Cavity Lined by a Skin Flap 5 g Ll 1931 485

The author reports a case f empyema of long stand ng which is i not respo d to ribr ects n a 1 drainage I ollo ing B ck sugge tio he I ned the cavity with skin by turning up nto it a l ng skin flap from the upper part of the al dome exten le l up ard to the top of the ty Because of previous difficulty in fixing such a flip so that it would not fall as as from the pe he fix dit in this case to me as of a long homo t t hi h he sutu ! to the skin and f sc a at the ent no of the wound At the end of f e lys h n the fo c ps w re re mo ed the flap as f und to mly the nt

When the patient was di h rg l f om the hos pital about three e ks l ter h a in good physi cleonitio h wounds e e gr ulating and

dently healing ery stafet ly R LPI B BITTM MD

GEODRAGUS AND MEDIASTINUM

The Diagnosis of Enlarged Thymus by the \ Ray and Treatment by \ Ray or Radium 1rch P d at 1024 h 30

Enlarged thymus is probably more common than is generally supposed. Heavy breathing wheezing or cro ing re piration cyanosi or an abnormal cry should direct attention to the thymus The \ ray shows a considerable variation in the shadov cast The shado occupies the upper by the thymn mediastinum and e tending do mard overlans the upper shado's of the aorta and heart Literally on both sides of the spine and bulg s out

and Lamphadeniti of the upper mediastinum may very clo cly resemble a moderately enlarged thy mus. However, as both lymphadenity and thy mic enlargement yield to \ ray treatment this mis take a not of great moment

Because of the change in the size of the thymus when the child 1 at rest the author has made it a practice to examine the child v hile it is crying and struggling

The technique of the treatment advocated is as follo s The rays are focu ed by means of a 3 in cylin ler directly over the thymic area with the u e of a q in spark gap 5 ma at a focal di tance of 20 cm for fifteen or twenty minutes vith rays filtered through 6 mm of aluminum. The author gives this treatment once in four weeks. From three to five treatments shoul I be sufficient

The ad antages of radium are summarized as

Radium can be applied without any annovance or struggle on the part of the child and therefore involves no ri k to the patient of strangulation and no ri k to the attendants of electrical injuries

The radiation can be kept definitely in place 2 The action of the radium 1 more rapid and usually one applic tion is sufficient even in the most severe forms of the lisea c

4 As radium 1 portable the treatment may be n at the pat ent s home

The author uses ten radium needles each con tas ing 10 mgm of radium element in the form of a pl que These nee lles are placed i cm apart an l upon a felt pad I cm thick. The radiations are filtered through the thickness of the neelle wall 04 mm of brass and the felt pad The patient s chin is protected with lea I and a pa I of cotton R LPH B BETTA

The Diagnosis and Treatment of

Enlarged Thymus Im J h c lg 1 1924 1 The author discusses the comparative frequency of enlarged thymus the diagno i and the value of radium in the treatment. The average roentgenolo

gist sees a fair numler of these cases and in the majority of them the final diagno is an I the treat ment rest in his hands as le from the o-calle I than estridor none of the

clinical signs is pathognomonic. Therefore d. gno is

must be based upon the roentgenogram. As a rule this muss shadoo extends on boths de soft the spine and its lateral borders are convex or bulging rather than concrive as are tho e of the shadoo seen in tuberculous a linitis of the superior mediastinum Belos s their its merges with the base of the heart it is uffer than it is about at the base of the next Probabily the main differences between it e shado of the thymnis and that of other masses in the mediations who may be confused with it are that the stream who may be confused with it are that the and is wider below than above. If it is do no er the base of the heart like a cap on the head

Gene emphasizes the fact that the thymus shadow increases remarkably in size, then the b by cne. If the enlargement is only moderate it may not be recognized unless the child is illowed to cry funning the exposure. Thates made during the course of which was the control of the course of the cours

each examination

The enlargement which occurs when the baby creas a probably caused by engor ement of the gland with blood as a p rt of the general convection of the blood vessel above the diaphragm or by the eleva tion of the diaphragm incident to the forced expiration drung coping. As the elevation of the diaphragm lifts the heart the thymus lying above the heart is lifted in and streads out 100 seath side.

Radiotherapy gives a complete cure in a high a centage of cases. While the results of roentigen irradiation are very satisfactory the author has abandoned this treatment in fa or of radium because of the quever response to the latter and the greater ease and safety of its application.

Four tubes of radium each containing 25 mgm are claced in a wooden block with holes 1 in apart

to contain the capsules. The fifter used 1.3 most of orter boxer of brass. The blocks 1 ft in joss to for text power with the radium at a distance of 3 is from the slam? Into do o does not produce an erytherm 2.5 is just cattenent is sufficient but occasionally the radium angular between the register of the radium applicator must be covered with lead on the upper surface be caused to come shall use on the budy schus a discount of the supper surface because It comes high up on let the budy schus a discount of the supper surface because It comes high up on let the budy is thus a discount of the supper surface because It comes high up on let the budy is thus the supper surface because It comes the supper supp

MISCELLANEOUS

Wertheimer P Tuberculous Lymphaneeitis and Adenitis of tl Intercostal Spaces (Lymphan gites tadén test bercul us ad se ep s unt reo. tau 1 Reo d. & Pa 1924 thu 70

In the course of three operations Werthermer made certa n anatomo patholo real ob ereations concerning the evolution of tuberculous procuses in the thoragic all which he thinks of interest

It is generally believed that tuberculous ab ce ses of the thoracic wall are secondary to a subjacert tuberculous focus either pleural or pulm n rv I ittle importance is given to imphangents or

adenopathies

In the author first case the onditi n was a tu
berculous adenopathy in the interco tal spaces re
sulting from ubjicent pleuropulmo ary tuberculo

The two other cases showed that similar less us of the lymp! aties of the thoracic wall may be local used to a single intercostal space and that the aden

tis may evolve toward supportation.

In the formation of clid ab cesses of the thotac wall the gland dar a popuration may represent the stage between the pulmonary or plur limfection and the parietal involvement. Not all old abscesses of the thoracic all are os illuent or arthrill ent

W A REPNAN

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Keith Sir A On the Origin and Nature of Hernia B J S g 10 4 x 455

Man is peculiarly liable to hermia it i estimated that t enty of every 1 000 male inhalitants of Great Britain are rupture 1 From the stan Ipoint of age incidence the study of a large group sho s that during the first year of life forty four of every 1000 babies are ruptured between the ages of 1 and 5 years there are only nine per 1 000 and between the ages of 6 and 10 years the most im mune period only six per 1 000 are affected. Bet veen the el venth and fifteenth years there a a slight increase b tween the ages of 16 and 20 years the incidence has increased to twenty five per a ooo and by the twenty fifth year it has increa el to thirty per 1 000 Thereafter there 1 1 ! until after the fiftieth year when the inci lence frogs to that of chil ihoo l. The infant an i the man at th he gl t of muscular development are the most h bl to hernia \inety per cent of herniæ are ingu !

The author is of the opin in that the my rits of hime art, of the author is the top in in that the my rits of hime art, of the acquired type 1 1 pink, through points of weakness in the budominal afform studies in comparative and my it qq a strong studies in a comparative and my it qq a strong studies in an enormous be qq an fed umb)! I terma shortly after but the hermals mis the cort—sloughs. The series is no of this file cort—sloughs. The series is no of this

the corl—sloughs. The servisian of the but no pocket of perit numeron in the suderecolumbuchatherns in high ninfers buse of neakness of this servit use. If me in a until I development the co. hit is servit to get the tender to a late the is due to total the fire tender to a late the fire a late by objects to pregnancy.

The descent of the te tis c th devel [mental changes by whi h th gut r bul traverses the all minal all 1 r t th base of the scrotum bring gth t t that th Ing and olliter to n fth | tr lirx m the imperfect. In but so per 1 f 1 11 the proces is imperational to the theri after bith The pres c of this pe ti al 1 mk t cann t be regarded as thet la lit inc lence of inguinal l r a luring it r mains open in n 1 11 1 nith rot des lop hern The up the part re o it le becau e the 1 t 11 12 as upright The aut! att ! t th É . nal h rnin t fail ire in th m h m tth ig nal huttir nt i The part ī to the contractile ji In ı wh t on arm t the fxell upart I gam t t 1 80

Potent il ar a of neakr

transversalis fascia. The shutter is worked by a reflex nerve mechanism

The explanation offer I for congenital hernix of the disphrigm is that the Julimonary cavities reresent inter tittal hernial sits and failure of complete closure of the sac p-rmits the entrance of the abitominal curtents.

Spina bifida and encephalocele represent hernix lue to an increase of pressure in the cerebro final

flui I system luring early fetal life

Retroph ryngeal pouches are not d selopmental in origin being cau ed by repeate l pre sure. They always occur through the same point a lozenge lapel ar 1 in the posterior wall of the pharynx b t cent to prirts of the inferior con trict r.

Duo lenal it erticula occur usually at the point there the mmon duct perforates the muscular

all an area of we kn ss
In the jejunum and the s gmoil diverticula are
usually found in artille m sentery here the wall of

the both perforated by see of A terms and the cut is commanded to the terms and a research the terms and the cut is a potential space and is, got or expension of the femoral sean during engoing must. The water humaner action of the commanded terms and the commanded terms and the performance of the table taken to the characteristic and the performance on the high the taken the characteristic and the performance on the high taken the characteristic and the performance on the high taken the characteristic and the performance of the characteristic and the chara

Retroperato: cal herrix occur hen tle jeristiluc a tion forces a knuckle of lovel into a small rece s such as the doudenal for Sa where it may become jr gre i cly larger. Herma into the for men of Wi slow is r re becau can) intere in the intra ab lyminal pr soure serves to olo e th s opening.

In unmarizing the author says that most of the gut 1 hr mac of infunc are formed into the funcular prior. A sasc of levelor mental one n 1 ut that if r h 11hoot the ac un 1 hernia are forned a gether and simult neously. Femoral unablend 11 ther 1 freet inquisit hernia occur through eak points in the al 1 minut wall as the re ult of ripe tel nut al 1 minut wall as the re ult of

Kern I C Tubercul u I ritoniti and Ita Treat ment J Io 31 1 31 Sec 1924 59

Armyr C Purci

Tulerculous peritonitis is c ns lered a bor lertine type of ailment of interest to both the internst and the surgeon Many hocate redical treatment u til certain results are of tailed or until failure is a knowledgel

Surp cal treatment is most from in in the as itic frim with free Lui lin the all limit alicality and few alless us. In the filtrous type surpers i not the

os us 1 1 1 the

best form of treatment. The results of operation are even poorer in the suppurative type unless there is intestinal obstruction or some other condition which

makes surgery imperative

For the ascinc type of case the author advocates early operation. All fluid and is hen possible the foct of infection should be removed. The latter metude the apprendix and tubes but not the uterus. It possible Iranage should be avoided. Caresbould be taken to prevent infection of the surgical wound be taken to prevent infection of the surgical wound stater down the state of the pertoneum and before closure of the skin.

The prognosis of tuberculous peritoritis depend on a number of factors the patient sage the type of the peritoritis and the treatment. In ad ocating surgical treatment of suitable cales the author recommends that they be treated also in the same ay as all other cases of tuberculosis. The patient should have rest light fresh air a nourishing diet and careful nursing. The history of the nations s entire life should be taken, and a thorough physical examination of the entire body should be made with special attention to the lungs kidneys and genital organs. If the condition is of the ascitic type operation should be performed as one as possible. After the operation the patient should be kept under observation and instructed as to his manner of hie and the value of re t light and proper diet for a year or more after he leaves the hospital HOLED A McKet BY M D

GASTRO INTESTINAL TRACT

Raul P Disinfection of the Mucos with line ture of Iodine in the Course of Operations upon the Gast o Intestinal Tract [Lad n tet on d s majures part | t | d vod u co is d p at 0 s s r | tube d g stal) J d | 9 3

There has alrays been a diversity of op non as to the advisability and efficient of applying it ture of iodire to the e-po ed muco a of the stomach or untestine in an effort to prevent contame nation of the pertinoneum. Many have maints ned that functure of io tine used in sufficient juzzitity to steril ze the mucosa impus is the valid by of the instead.

indicate many a careful lacternological study of the most of the gasto intestinal tract before a district the application of a small quantity of s per cent instrum of s dim. He concludes that so amount occasionally gives complete sterulity and always acepts and beite est that the use of ours better the net the methods commonly employed to protect the personnel cavity.

LOYAL E DA IS MID

Bolton C The Principles of Treatment of Gastric Ulcer in View 1R cent Wo & B # M J 9 4 i 30

Bolton d scusses the effect of d sord red gastre function upon the healing of gastre ulcers. When the gastra function and the diet are normal.

ulcer heals read it, but as the lesion usually increases the irritability of the stomach foods which normally are easily folerated are apt to cause disturbances of function which arrest the healing of the ulcer. The ease with which an ulcer heals depends upon use a case with which an ulcer heals depends upon use a case with which an ulcer heals depends upon use a case with which an ulcer heals depends upon use a case with which an ulcer heals depends upon use a case with which are ulcer heals depend upon the account of the case which we have a case with the case of the case o

many chronic ulcers are incapable of belong at all his ulcer of the stomach originates as a sum leacute ulcer or as a spreading acute ulcer. The simple acute ulcer forms from a strictly localized initial lesson involving the mucous membrane the ulmucous issues and often the muscul coat but rarely the personneum. When the dead portion originates an interpretable personneum because it very rare or the personneum with the personneum originates and interpretable. Personneum home personneum originates are the personneum originates and as a rule its bealing is complete as from three to four necks. In some cases however the ulcer to the personneum originates are the continuous and as a rule its beating is complete as from three to four necks. In some cases however the ulcer thickens its base becomes exacutef and beginn

is arrested for many months. The spreading act to ulcer begins at one point in the mucous membrane and spreads in a circular or oval fashion destroying one layer of the gastin wall after anotter and forming a terraced edge. The perstonest base becomes adherent to the surface or organs and the ulcer tends to blee the control of the con

Chronic ulcers may arise from the failure of a simple acute or a spreading acute ulcer to heal There are two types of chronic ulcer (1) the large flat ulcer with a thickened base or in which the base his dispiperared exposing other viscers and (2) the ulcer with a very thick ba e which not uncom-

monly forms a palpable tun or The ulcer acts as an urning

The ulcer acts as an irritint affecting the neuromuscular m chain mol the stomach the ac dity of the g stric cont nts and the service in the grajuice. The part most affected is the pylonic region. The pylonic phanter becomes irritated fails to relax norm (by an if finally becomes passmod? Delay in the employing of the stomach re u.s.

Normally wher the combined and free hydrochoir c a dires to about c per cent the pylorus relates allo ing the regu g tat on of ble and p in creat tynce into this stomach. In the format on of morganic chloride the act | ty falls as the stomach in the signature of the properties of the support does not relax the actist; continues to rise a d ! pyeracidity results

The pro ongation of the digistive proce s often

gives n to hyper ecret on of gastric juice. Wh n organic pylo ic obstruction supervines these effects bome p manent. An ulcer of the body of the stomach does not cause hyperacid ty unless the pylorus becomes arritable or hyper ecretion is present.

In experiments on cats a nations in between found to have a marked effect on the rapidity of the healing of ulders. In mill, led cats Bolton found that the base of the uller was completely collect with epithelium on the twentieth day while in meat led an mals it rem ined entirely uncovered or the epi

theliam had merely reached the periphery. This delay in the gro th of the epithelium was due to necrosis of the superficial cells of the granulation tissue base of the ulcer. The necrosis was due to the prolonged action of the hydrochloric acid and was accompanied by excessive formation of fibrous tissue in the base of the ulcer.

In a series of experiments it was found that the healing of the ulcers was delayed in proportion to len thof time that food was retained in the stomach

In monkeys it was found that the introduction of hydro blone and into the stomach caused a delay of two or three times the normal healing time. The introduction of o i per cent or v eaker hydrochloric

aci i had no effect

The objects of treatment in gastrec ulter are (1) tessen the neuroimscular irritability especially of the plorus and thereby facilitate the emptying of the stomach and restore the normal doudenal reguration and (2) to reduce the amount of galfier juice secrete? It is important to recognic extra the proportion of the restoration of normal gastric function not of the testing of the vicer.

The treatment is divided into two stages (r) prehminary treatment and (2) subsequent treat

The first period lasts six weeks. During this time the patient is kept in bed to re luce the expen liture of energy in or ler that the diet may be re luced to the minimum. As the erce sixe irr tability. It

appears the diet is gradually incre sed until the patient i receiving the full diet that he is to be all) ed. He then is permitted to get up

In the subsequent treatment the fool 1 s liquil 1 sems solid finely divided and free from 1 stant. The gastric contents are neutrili 1 liu ag th liter stages of digestion by an ill-uil to pre ent intuity 10 the pyforus. To r duct the extraordist to organize junc no meat 1 allowed und 1 she extraordist are removed by boiling. Citr 1 I milk an firm the stant proposed in the form of butter extraordist and the form of butter extraordist

Wales are given one in I one half to to hours after eich meal in I one in the ce tuing the night if the patient is a side. The bist side I is in the much Carb nate magnessum out I all um fonate and sodium bearbin te Moji take

a se on lary place in the tre timent

The only direct meth d of lealing with h is

there is excision

(LA TON F A MD)

Pritch rd J E Tube cut u Ulceration of the Intestine C J M 1 J 94 5

Recent work has procel that ma a of n testinal tuberculo as can be u full t telb cantonum routine with the alf frgr ilight therapy. In their process of the cap of the cap the cap of the c

ing definite intestinal lesions. He studi d these cases for the purpose of ascertaining the earlier manifestations of the disease

The onset is insidous the disease being usually well established before the patient makes any complaint referable to the gastro intestinal tract. In all of the patients studied there were pulmonary lesions and in thirty inne these antedated the intestinallesions. In one cases their vere no definite symptoms but the \ray showed a very mixted filling defect. In five cases the general breakd on \ray as coincident with the onset of intestinal symptoms in every case general symptoms such as loss of wight or energy or an increase in nervous irritar towns.

Nersousne s a known to be one of the earlier symptoms of untestinal involvement. Amoreus as a common and often the first symptom abdominal dicomfort being a cloe second. Definite pain via site most frequent complaint being pre ent in forty to cases but was the first symptom in only five Flatulence vas noted in trenty six cases but folloed some of the others mentioned. Menteen patentis reported languary ten had attacks of vomit ig and minet in were constituted. Next to print diarrhera as the most frequent symptom occurring infifix fix eases.

The physical findings were computatively in significant. In only one case us a there even slight rigidity an I in only two cases were there palpable masses. Tenderness was present in twenty two axes and in the majority was located in the right in crossa.

Banum meals vere given in forty four case. In forty three there were definite filing defects. In in case the electropy of the case the east hypermotility and in five the binium was agmented in the small bowel.

The stomach contents a cre exam el in fifteen as file act is were normal in twelve and low in one two showed alse ence of free hidrochloric acid and all total act into Tubertels brollia cre found in the faces in twents of forty two cases. O cult blood wa found in thirty of forty t's o specimens I us an i soluble albumin which latter according

t Cooj e means ulceration were foun i in thirty two
cases each CLAYTON I I DREW MID

G égoire R Ti e Normal Forms of ti e Duod nai Cap (Les fo mes n males d bulbe d od l) Bill imm S d ck d l 1933 lv 152

The normal incidenal cap as reverted is the V ray in the stain in greation has three types of form. These by pes and positions bear a fertile relation to the general configuration of the body. The duo of n l cap her and stomach adapt them elles in h pe and position to the form of the thoraco ab form alstructure.

Type 1 (l g 1) is found usually in rol ust males with a sh t and large thorax. The luxdenal cap is flatt ned into a wagon l rale hape being wifer

than it i hi h as if it were compressed against the undersurface of the liver nd rectilinear Its upper surface 1 Slightly convex and its lover surface some what concave Its two short sides external and put roal are cur ed and convex. It is nearly horn zontal or moderately in lined at the base. The stomach has the appearance of a corr ucopia and the liver is broader than it is high

Type 2 (Fig. 2) is found most frequently in the slender female with a long thorax The duodenal cap I drawn out to a candle flame shape being higher than it is wide and takes a vert cal position s base is concave and parallel with the nylone an The stomach i clongated the ascending portion being parallel with the descending part

The liver is his ber than it is broad

Type 4 (Fig 3) is found in persons midway be tween Types 1 and 2 thi is the most common type. The duodenal can forms almost an equilateral triangle with rounded angles. The base is concave and follor a the curve of the pylonic antrum. The cap is directed upward and nward and is inclined about 4, de tees on the horizontal The stomach has the form of a sock or a hammock. The liver is

almost a broad as it is high As the pathology of the duod num is of increasing interest to urgeons today the auth r belle es that

the various normal forms of the duodenum should be emphasi ed in order that normal positions may n t

be regarded as pathological WALTER C BURK T MD

Brown & P Simple Ulcers of the Jejunum and Heum Ea b rel 31 J ats n

The ht rature contains the r ports of only thi t five cases of simple ulcer of the small intestine These to not include p ptic ulcers found in the stoma h and duodenum or secondary ul ers occurring in the small bo el in dysentery tuberculosi carcinoma and inte t nat obstruction

Simple ul ers are found more frequ ntly in the dean than the jejunum As a rule they are r und ad clean cut ath purched-out ed es the mucosa suffering con iderably more extensively than the scrous coat There is usually ery little inflamma

t ry react on The et ology is obscure. The most lo real theory attributes th m t infection Tr um th occur

tence of rests of gastric mucosa in the inte tin a and abnormal functioning of the endocrine glands may

be other factors Simple ulcers of the Jejunum and ileum occur more commonly in the male than the female. The most constant symptom is pain in the middle of the abdomen Often this is associated with the ingrs tion of food Usually it is not severe enough to cause the patient to seek surgical treatment until perf ra tion occur? The syndrom 1 me t commonly con fus d with that of gretric and duodenal ulcer and

acute appendicitis The treatment is surgical Simple closure of the perfor tion is best if it can be done without narrow ng the bowel too much Enterectomy may be necessary Dra nage is usually required if the per

foration is in the ? wer bowel The author reports in detail t o cases of simple ulcer of the sleum which came un ler his observa

Gladstone R J and Wakeley C P G The R lat we Fr quency of the Va i us P sition of the V rmif rm Aprendix as A certained by an Analysis of 3000 Ca es B 1 J S 1 19 4

CYRI I GL S EL M D

The authors ob erved the position of the appendix in 3 000 ca es at operation or at autops. In twenty seven (o o per cent) it as anterior or pre ilet! to fiteen (a 5 per cent) spleme ar postileal in 825 (27 5 per cent) pel 10 on the psoas mu cle near or hang ng ove the brim of the pelvis in fifty six (186 per cent) subcecal beneath the carut cart nd in 2 076 (69 2 per c nt) postcæral and refro colic. In one c e the aniendix and circum were di placed upward an I to the left beneath the stom ch a d in front of and below the tra sterse

Four var ties if the mot common type the posteze al or retrocoli prendit ere found The e are I scribed as I flo is

c lon

Appendix free in a postex il r retroc lic pouch of personeum

2 Appendix held in contact with the cacum or the ascending colon by a hort mese tery

3 Appendix adherent to the execum or col which with the aspe dix form the anterior all of a retrocole p u h f pent neum

4 Appendix behind the excum and ascending colon but because of abliteration of the retrocolic pouch entirely extraperatoneal

Congenital ab ence of the appendix and left si led appendix were not found in this series of cases TORN L DIES M D

Cross D G T k. Action of Physostigmine and Pitultrin upon the Isolated Vermiform Appen dix B: II J 924 1 9

The article a concerned only with alcus of the dynamic type. The author di cusses the danger of ileus Cannon's and Murphy's conclu ion as to the cause and the past and present methods of treat ment. In animal experiments Gunn found that there appeared to be a genuine synergi m between pitui trin and physostigmine evidenced by the fact that smaller doses of these substances in combination produced a more pronounced stimulative effect on the intestinal movements than much larg r doses of either given alone. He therefore su gested that combination of pituitrin and physosticmine wo ld probably be more efficac ous than either alone in the treatment of postoperative ileus

The large majority of the cases of slight post operative distention studied by the author yield d to enemata. A certain number which ere more res tant responded to pituitrin or physostigmi e alone The remaining cases ere not benefited by either drug eparately and therefore were treated with both. The results in the latter vere as follor s

In five cases which were considere I despe ate the relief gi en vas astonishing. In one case in another 6 ft of gangrenous into time we e re moved In one case an incarcerated uterus formed an absolute mechanical obstruction in the pelvi In one case the treatment failed enti elv as the patient succumbed to an intense general septi Carmia

Experiments were made al o on 1 of ted human append ces suspended in Locke s s lution k pt at a

temperature of about 37 degrees C The author off rs the following summars

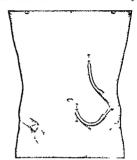
1 Experiments on the 1 olated human appendix have shown that physo tigmine and pituitrin in combination have a more pow rful effect in st mulat ing movements of the intestine than either alone 2 A number of cases of severe post per tive aton) are de cribed in hich the comb n tio relieved the condition when ph o tigmine or

pected mechanical obstruction EMIL C ROB TSHEK M D

pituitr n alone failed to do so Indeed no cas thus treated has failed to re pon I unles th r was unsus Wilkie D P D Temporary Ext a Abdominal Inte tinal Ana tomos s Tl uch a Tube B !

J S g 10 4 568 The question of short circu ting an obstruction

of the intestine by means of a tube I ading from the d stended bo el above to the empty testine below has hitherto received cant attent on Wilk e reports



Uppe tub damı frt coll of jun m nnected up tbetr clof small tte be o Ac tat ste mol content p h t Let o th c cut for fied v

a case of acute perforative appendicity in which obstruction developed on the fourth day after opera t on Under gas anaesthesia a loop of intestine l elow the obstruction was exposed and a rubber tube 1 serted Gas but pr ctically no solid contents came away Large quantities of glucose and pep tonized milk were then gi en through the tube Later the patient's condition becoming more un favorable a loop of gut above the obstruction was brought out under local anasthesia and a second tube inserted A large quantity of fæcal matter came away but the patient fuled rapidly The two tubes were then connected up so as to short circuit the obstruction and to form an artificial intestinal loop Th reafter the patient steadily improved and t o months later was able to resume his work en tirely well JOHN L DIES MID

Fansler W A The Rectum as a Factor in Chronic Focal Infection M ta M d 924 1 1 0

No case in which focal infection is suspected should be deprived of the benefit of a rectal examina tion As a rule proctitis and coliti are easily diag nosed by means of the proctoscope Infected hamor rhoids are usually recognized but o casionally the ulceration is hidden Ulcers present little difficulty if the proctoscope is employed but a Hu ton valve may sometimes conceal them

Cryptitis should be recognized for although it may cause few symptoms at a the most frequent forerunner of sinus All of the crypts should be e plored and particular attention should be paid to 7 Y

the terminal portions which may harbor infection

the starting point of an abscess

Sinuse are most frequentl overlooked These usually open into the bocket at the lower end of a crypt but in rare ca es open above the cryft area They extend (1) outs and and downward (2) up 1 and (a) to unard ju t beneati the skin and rarely (4) into the tis ues at right angles to the rectal

all They are always the re ult of abscess forma tion. The latter may be a frank perianal or ischio rectal suppuration or a slowly growing indurated absces which evacuate into the bowel Inguinal adenopathy may be associated with it. To di enose the sinus the lover rectum should be dilated and the crypts of Morkagni explored with blunt probes M L Miso MD

Anduze A Case of Serious Hæmorrhagic Recto Col tis 'Tr ated with the Antihamorrhagic Serum of Dufour and Le Hello (A 11 po dua cas de recto- obte hem rramque e ave tr te par le serum a t hemotrap que d D f ur et Le H flor I'll et m m Soc med d hop ae P 023 3 14 3

The case reported as that of a 3, year old man who from 1907 to 1919 had simple mucohamor thagic evacuations every three months and from roto to rozz once every mo th During the last month before he consulted Anduze severe intestinal hamorchages occurre I about every fourth day dur ing defacation and were associated with tenesmis and grouns along the course of the pelvic colon The patient vas very coorl nourished walked with nam and appeare I ex angumated. He had been treated by several ph icians for dy entery

On exam nat on no hame trho d were palpated and the rectal muc sa felt oft but the examining finger was to ered with blood Stool examinat on show d only the usual and no pr tozoan raras tes or cast On rectos gmoidoscopic examina tion at a di tance of i to 30 cm from th anus or as for a the instrument will reach the mucosa was red conge ted and very friabl Bleeding as were en Be au e of the chini al course the patient was rut on emetine tr atment for amorbi is enter-This 1 25 without benefit The barnor hages be cam more severe and large blood clots were pas e i Irrigations with tarrin kram ma alcium chloride silver nitrate etc fa le i to g ve rei ef

F flowing the intramuscular 1 jects n of 0 c cm of the antihemorthag erum of Dufo r and Le Hello there as e ere shock th diarrhora and comiting but the ham trhaged are ed adon the second lay ceased Sit n d ys later recurred 40 c cm of the serum were given the doses were d ided to avoid a aphylactic reaction Shock as less e ere Bleeding ce d within two days. The p tient gained te ght and color and his g neral condition Le ame excellent

About three months later another recurrence f the hamorrhage which wa treated with 40 ccm

of the scrum subs ded in one day. During the rest ten months the patient gained 32 lbs and returned to work Rectoscopic e air ration showed noth ng abnormal The rectum was treated daily with Friedal's mixture (dermatol 10 gm calcum carbonate 20 gm laudanum 30 drops oil of ou menol to ccm adrenalin so drops mucilare on

Another slight recurrent re tal hamorrhage was treated with an injection of the erum followed by daily lavage with a weak silver nitrate solution for six months There has been no further bleed no for one year WALTER C BUR ET MID

LIVER GALL BLADDER PANCEEAS AND SPIFEN

Schne der J P The Dagnosi of Chr nic Chalecvatitis Wi sold W d 19 3 : 677
Bissell F S The Roentgenological Dagno is of

Chronic Cholecystitis M n | M d 1911 | Ritchie II P The Surgical Dagnosis of Gall

Bladder Disease Minnes is Med 10 1 vt 681 Schwyzer A The Surgical Treatment of Diseases of the Gall Bladder and B le Channels M n 2 14 M d 921 V1 685

SCHNEIDER states that the de elopment of ch one cholecystatis may be divided into di ales. The first and a cond decade are that ctenzed by symptors of a tox c cond tion su h as perio he head a he and by reflex dige tive disturbances such a fulln sa belching and qualitative food di tre s. Dur ng this early period there are no locali ing si s Dur ru the third and fourth decades the symptoms become more pronounced for a time there are attacks of someting and a luc che t the right h pochor drium Later there are definite attacks of bihary colic with evidence of active infect or in the bil are trait From the fourth to the ghth lecade the complex tions are ant to as pear in the form of emprema of the gail bladder gan rene stone in the commondu t pancrestitis and malignant di case

In the different if liagnos s disease of the duo denum ppenix and right kidney and defin tell medical cond tone such as ng na p ctor and the gastric er ses of tabes must be on dered Careful atter tion to the history supplemented by labor tory

tud es will usuall d fine th less n The author directs tient on to the follo ing

atypi al forms of gall blad ler di a e The il nt g ll bladder in which the first vere and udien biliars col symptoms a c 2 Ib febrile g il bi dder 1th b ence of I cal

s mptom and a dail 1 e in the temp rature simil r to th t of pulmonary tube 'uloss 3 The neur logs al gall bladder with absence of

abdominal complaint bit with a variety of nervous symptoms The hypercholester emic gall i la ider with such

e nditi ns as fern cious anæmia nd hæmo ju laundice

ssett reports that the statistics of diagnostic is are largely problematical because the negcases are rarely checked by operation or autopsy cases referred to Bisself for 7 ray study of the each and dwodenum are subjected to 4 study is gall bladder especially in the stomach and enum are found to be negative in the presence mytoms in the upper part of the abdomen.

e patient is fasted for twelve hours and at the that time a sense of trontgenograms of vary leasties are made of the right half of the about the right expense of penetration into gastine examination is then made. Direct more of gall bladder do ae e 1 its visualization eep freeze of shadons cast by stones. The mints of the gall bladder and the condition of its difference is presence or absence in the roent yam. The normal gall bladder is not vible tet ordence of die asse of this viscus is given ungers in the mothity and tomostry of the stom

and pyloru and by pressure deformity of the us and duodenal cap sentgen signs are considered conclusive in mans and in others are only contributory to the

and in others are only contributory to the lated agnosis TCHIE S di cussion deal with the interpretation

rgical pathology found at operation Following uate exposure of the parts there should be a ite form of procedure in the examination of the bladder cystic duct common duct pancreas enum hepatic ducts lymph glands and li er must be on the lookout for anomalies of the is and ducts Inspection and palpation of the bladder will reveal changes in its color the ness of its walls its degree of compressibility the gross nature of its contents. The fundus i nost common site of macroscopic d sea e The s must be carefully freed to e pos the cysti and to avoid operative mistake. By the in on of a finger into the foramen of Winslo the portion of the common duct can be salpated the co dition of the head of the paner a de med If necessary the pancreas may be expos d igh the gastrohepatic omentum. Cha g in appearance of the liver a e also importa t am demonstrated a relationship bet en h p

ne operative procedure should be let runned no axis of the character and degree of infact not all ary tract. Radical surgent not all attempts are considered to the arrow patient. Acute cholecystit collisting of all judgment.

and dise se of the gall bladde pin rea

al grance usually no olves the enter rigan locarctinoma pay occur in the agr gill bill die off ratte elessons commonly; of the time mee part of the intestinal tract. Val grana c pancreas may be difficult to dit to, in hir on the inflammation. Acute pance citis move his minal catastrophe or in its midd for more late an attack of cholelsthas s. If the hamolymphatic route of infection can be proved clinically the removal of the gall bladder in the early stages of the di ease will depend upon the demonstration of changes in the liver

SCHWIZER states that in favorable cases a dicased gall bladder shoult be removed rather than draine land if possible the wound should be closed without drainage. Cholectostosmy is indicated when severe local infection is encountered in a very sex, patient the site of operation should be well seen that the state of operation should be well gangtene and empirement of the contraindication to cholect settember.

Apparently imptomises stone in the gall bladder which may be en ountered durin, exploration in a pel is operation can be remo ed through a separate small inci ion. A drain should then be left in the gall bladder. I deal cholecystotomy should be employed ith extreme caution.

In sever holamia a simple cholecysto tomy under local anaesthe ia can be done safely. The peration should be preceded by the administration of calcium

A sy ollen lumpy pancreas i not an indication for saving and draining the gall blad fer as this condition usually subsides after cholecystectomy

In the majority of cases of clean cholecy fectoms drai age. I the field of operation can be sifely did ca ded. A holecystostomy needs no other drain a cept th tub in the gall bladder. When drainage is 1 d cated becau e of severe infect on it should be established by soft rubber tubes or tissue rather than cauze.

When the common duct has been e plored it should be drained becau e of the frequent temporars interference ith the outlet of bile into the duodenum Drainage of the luct 1 in licated especially in the presence of white bile.

Injury of the lucts is a serious complication of ope ation and is best a oided by thorough exposition and is current and first on of the structures. Carcinoma of the gall bladder and ducts is usually a hopeless condition when it is seen by the surgeon VERIC C BLEREY M.D.

Muscatello G Cholel thasis with Patcular R ference to infectin of the Gall Bladder and Pancreat c Complications (La lilita p l g do all if iddlect tell dil mplc p reat h) Rf mand

The author discuses cholelthiasis from the urgi al point of vie and urge closer collaboration bit en the surgeon and internst in the liagnoss in it ratment. The problem is not purely surgical exen under the most favoral le conditions operate.

tion to s not all ays give a sait factory result. In a on it able number of c to the reason for a unitiation treated the observational treatment on the langers of operation increase directly with the length of time operation is postponed. The danger to which the patient is exposed when treated metal.

cally over a long period of time may be greater than that of a stormy postoperative convalencence

Recent patholo scal investigations of the hit ary passages have led to the view that gall stones are due usually to infection of the g ll bladder. Infection is lound in at least three fourths of cases of cholel thiasis. In most of the others metabolic processes and disturbances account for the calcult. The very are intrahepatic stones are due to chronic strain and obstruction. The theory, that thilary stasss may account for stones has received considerable support of late from Hendrickson Silvianni and Berg

Infection residuation is limited to the state of the foot street between the lood streets by we yo if the portal system only the blood streets by we yo if the portal system only the livenphities. With regard to the as oc ation of append cits with cholel thissis the author states that as there is 10 direct communication between the appendix and the gall bladder we must as ume that infections develop nr in the appendix reach the gall bladder through the hepatic circulation. The assumption that the spleen may cause gall bladder disease by eliminating torus and the products of

infection into the portal stream is yet to be proved. Stones may be formed around deposits of choles term est is which become detached and mitted

ith d squamated epitheli im and lipoid substanc s. It is probable that they may be formed in this man ner without previous infection. Mann has been able to pro luce stones experimentally by the intra-enous injection of chemicals.

Rosenow found bacteria in the substance of the gall bladder shall but not in the bile. In chronic cholecystitis such bacteria m v at times become active and cause neute exceptations. The formation of stones in an apparently normal gall bladder is yet to be explained. The theory the tit my be due to a transient infect on which has left no trace has not been drived.

Pancreatitis is now known to be a much more common complication of cholecy tit than was formerly believed The infection is spread by con tact or by way of the lymphatics Inflamm tory lessons are interlobil r and usually limited t the head of the pancreas The sland of Lange hans are a dom involved Chron c pa creatit a a ely develops to the stage of necros s If it a not too f r advanced it c n be cured by ch lecystectomy or cholecystos only and drainage Even in advanced cases surgery of the gall bladder will improve the cond tion unless marked sclerotic ch ages ha e occurred One of the organs most ir quently re sponsibe for cheon c panere tit a is the appe to In 1923 Braithwaite repo ted that there sa di e t communication between these structures through the superior mesenteric lymph nodes. I fection reaching the pancreas through the comm n duct usually causes an acute hamorrhagic e ti n

To date no method has been found by which the correct diagnosis of choleithias can always be assured Palpation is seldom satisfa tory is a rule cholesteria cal ul ca s a disturbance on when they are I rige enough t ause obstruction

In such cases there are sudden attacks of severe colic of short duration During the interval between the attacks the patient is free from symptoms. A similar syndrome may result from kinking Other types of stones due primarily to infection usually cause the symptomatic triad of (1) dyspensia which at first is mild but gradually increases in severity (2) colics which are gradual in onset and (3) fever usually accompanying the attacks The use of the duodenal tube has not given any valuable a d in the treatment or diagnosis. The I ray has its limitations but a gall bladder that can be demonstrated in the roentgenogram may be considered definitely diseased. Functional tests of the liver do not furnish the information desired. A diag osis of spasm of the common duct sphincter

should be made with caution
In the occasional case of cholecystitis medical
treatment may result in cure but in choletifusias
it is of no value. No substance is known which will
diss live stones within the body. The passage of a
small stone does not cure the desase there are
always others. A large stone in its attempt to
descend may cause perforation with disastrous re
sults. The chronic cases allowed to go on for years
with medical treatment duming the scute strates
may suddenly flare up with unexpected and severe
complications which become more dangerous as the

patient becomes older.

In the treatment of cases of repeated attacks of bit y coinc the medical practitioner should bear in mind the possibility of sixth conditions as acute diffuse ang ocholitis acute atrophy of the liver per foration with p ritouit absects formation with rupture acute obstruction and acute hermorthage parcreatints. Bee des these complications there are two which though they d velop gradually not be according to the control of the co

presence of calculi

The unce tain effect of medical treatment and
the persistency and severity of attacks have recently
react d in fav t of surgical intervention. Operation
however is not to be considered when stones are

me ely uspected and the attacks are transient and of slight's enty

In ge eral the b st time for operation is between attacks unlist the symptoms and abdominal find ings w frant imm d ate intercent on The indications for operation are summarized by the author as follows:

Asept c cases n which the condition is due to occlusion caused by stones or Linking. The mor tality in these cas is a pr citically nil. Temporating leads to the dev. I pment of complicating inflam in tory reactions.

2 Infected cases n which there may be perforation empyema challingets or abscess formation.
3 Acute localized cholecyst is without complex.

tions Operative measures should be instituted

between attacks. If the patient is under 45 years of age it is best to operate early but if he is older operation should be resorted to only when medical treatment is found of no avail

4 Hydrops of the gall bladder Operation is accessary to prevent perforation and suppuration

5 Cases of complete common duct occlusion Operation should be done preferably between stateks Such cases often develop serjous complica toos. Acute occlusion with fever demands im menaiteof reation.

6 Angiocholitis and hepatic reactions complicating cholecystitis. Immediate operation is indicated According to the patients condition either a cholecystostomy or a choledochotomy with drainage

should be done

2 Cases of acute bæmorrhagie pancreautis Immédiate intervention is necessary if chole vst its is present cholecystostomy is undutated in cases of chronic pancreautiv complicating gall blad der disease the treatment should be cholecystostomy or chalecystectomy with cholechotomy and drain 425. If the pancreautit is of a currhous nature with majorement of the papilla either a cholechochod dedenostomy or cholecystostomy may be attented.

8 Cases of combined appendicitis and cholecyst itis Immediate operation is indicated

The postoperative mortality depends hiefly on delay of the operation. The most common causes of death are peritonitis from infected bile and pneu

monia from infected emboli

With the exception of extremely rare cases all of the spealled postoperative recurrences ar du thiefly to delay of surgical intervention. It is possible that a stone in an inaccessible location m v escape the surgeon but it is only when operation is delayed that stones migrate to the macce sable are s and adhesions are formed. The persistence of th onic pancreatitis after operation is also lue to del y of surgical treatment. Achylia follo ing operation is never sufficiently severe to cause serious disturban e and as a rule it was present before the oper tion The possibility of postoperative hernia is no longer a valid reason for delaying operation as th impro e ment in operative technique and the el mil tion of drainage have greatly reduced the in den e of this complication. Drainage is nice sirv usually because operation has been too long dela ed. The author a statistics show a recurrence of di turbances in 5 per cent of the cases operate I upon for acute cholecystitis 24 per cent of those ope 1 1 upon for chronic cholecystitis and 25 p r cent of tho e n whi h the common duct h I become n I ed

Careful pre operative prep r to 1 ne 1 v in every case. The presence of jain l e an indication for the intravenous injection of 5 m of a 10 per cent solution of calcium chlor de f r three days previous to operation.

Combined local and general n sth in is best Either a paramethan or a transfe tus in sion sheld be made. When the abdomen has been opened the appendix duodenum and stomach should be inspected. Cholecystostomy is the procedure of choice in urgent cases in which a more radical operation is not warranted in cases of pancreatitis and cholecystitis without stone and in cases of cholangeitis without stone in which cholecystectomy is impossible. Cholecystectomy i the method of choice in all cases in which it can be done success

fully In occlusion of the common duct choledo chotomy is nece sary. If the attack is accompanied by jaundice and fever a two stage operation is indicated the first stage cholecystostomy with the extraction of calcult and drainage and if the gall bladder is scierotic choledochotomy with drainage the second stage cholecystectomy. In the absence of a recent active infection drainage can be dis pensed with but otherwise is essential. When in doubt the author drains. In uncomplicated cases a single tube is sufficient. The possibility of the formation of adhesions is not a contra indication to drainage. In a large series of cases the author found. it necessary to re open the abdomen and free ad he ions in only two and in both of these drainage had not been estable hed. He objects to a T drain preferring a single tube surrounded by to o small strips of gauze

In conclusion Muscatello states that while choledochoduodenostomy appears to be a rational procedure it is still too early to pass final judgment regarding it. The transduodenal chole chotomy advocated by I orenz has a disadvantage in the perture in the intestinal tract. Walkel preferred surreduodenal choledocho dromy he cut the sphing that the process of the proc

Ro ing T Further Contributions on the Patho genes s of Cholelithiasis (Wester Best aege u lathog d G lienster kr kheit) Acta ch

The author reviews hi experience with 130 opera the cases of gall stones and states his opinion that the primary for for gall stone formation are the smaller bile par Ages in the liver A precipitate of 130 miles and 130 miles

The formation of pure cholesterin stones is essentially the same process in its early stages as that of any other types. Cholesterin working into the interstities and fissures of the small pigment masses exerts its well known solvent action which results

in the replacement of the pigment by cholesterin partially or in rare instances completely. I roof of this is the fact that pure small cholesterin stones are never foun 1 as they would be if the pr cess were only a gradual accumulation of cholesterm. On the other hand sto es of all sizes are found with a pure cholesterin coating and a nucleus of mi ment of vari

ing size high represent stages of pigment absorption Conditions favoring the p ecipitation of bile pig ment in the liver passages are pregnancy infection

and overnourishment

Presenting statistics to show that gall stones are much more common in multipart than priminarae the author explains the pigme t precipitat on on the basis of toxic substances in the maternal circulation Body dehydration accompanying fetal growth and lactation may be another factor

Thirty two ca es of pure pigment stones found at auton v in gall bladders that appeared normal illustrate the role of infections and systemic tox gemias in pigment precipitation. The pigment stones were ce tainly of recent origin and fou d through

out the duct system

The author's discuss on of the relation of infection and ble stasis in the bihary system end with the conclusion that b le stasis with or v thout infectio i does not play a beginning role in the format on of gall stones The is the poosite of Naunyn's theory Cases coming to autop v in which there h d been a history of infectious jamn i ce failed to sho stone formation with regularity Infectio superimposed on b hary tra t obstruct on from caus other than sto e also failed to show e adence of sto e formation such as might be e pected if stat a dinf ton are prerequis tes. In the great majority of a stances i ifectio 1 a complication rather than a precursor of cholelithiasis

Ptosis and associated biliary stasi are not factors in stone formation. Of 530 ca s operated upon for gall sto es only e ghteen ho d gastrocol c ptos and in n of these was operat neces ary fo that co dition Of 300 case op ate l upon for ptosis gall stones e ef ni nonly 26 pr cent

The associati n of ob ty a digalist nest purely clinical Ho e e m tea s facute bl v tract pan with the d charg of l g numbers f mall pigment stones it the nt stn a e those f be e

ner ons

Chol evstotomy is by all mean the oper ten f choice f r the s rgical treatment f holelith Among 3 o cas s o tre tel the uthor foun i nl one in tance f true re n of t n tance of d ubtful Chole t tom do s n t prevent recur en t t and definite detriment | q ele ith t b sach I gi trea ga trie hypo a il t 1 PP f th ablit to i cre clif to of th bil Ach la ga trica occur d n of tw ty to t cales of known es tied et 1 truct g tich po ed to two a ln malacility inf u

The g nerall with tob trut toah ll w followed by d latatio of the sphnt re below t exemplified in obliteration or obstruct on of the c) stic bile duct Relaxation of the sphincter of Oddi and decreased gastric acidity favor infection of the biliary ducts Experimentally it has been sho n that follows g ligation of the cystic duct the pan creatic secretion 1 dim ished by approximatel one third

Cholecystectomy should be performed only under unusual ci cumstances such as atresia of the cast c duct or gangrene of the gall bladder Partial gan grene warra to resection of the gangrenous area WILLIAM P LAN WAGE TO MID.

Waht H R Ca cinom of the Biliary Tract 1 1m 10 4

Six cas s of ca cinoma of the bil ry tract are discussed from the standpoints of clinical and autop-

5) findings

The first case was that of a 75 ye r-old woman with suph his who for nine months had had y gue abdominal pain ordema of the feet shortness of breath enlargement of the abdomen and slight Jahndice A movable mass wa palpated to th right of th umbil cus There was no history of gall bladder disease. Autopsy revealed primary care noma of the g ll bladder which had perforated into the colon and numero s metastatic tumors in the liver

The second cale was that of a man aged 61 years wh had h d severe abdom; al pain cedema of the feet shortness of breath and ascites for several menths Large amounts f straw colored fluid were remo ed at freque t t ppings. The liver was markedly enlarged. The e was no jaunisce. At auton v the surfa e of the liver was found to be smooth and regul r but the right lobe had bee me almost entirely r placed by a gelatinous carcinoma In the left lobe we e many smaller masses This * 3 a case of pr mary carcinoma of the li er arising

from bile duct epithelium

The third patient as oman 73 years old had had is mfort and pain a the right upper quadrant i r ten weks and f ght weeks deep jaundice a d clay st ols Ther was no history of blary colc The li e was enlarg d A topsy revealed a primar) care oma of the l er which diffusely involved the small ducts and was a ociated with a marked hbross

The fourth ase was that of a man ag d 51 ye is who had had da hora and deep const t jaund ce bout ten mo the There was no p t or h story of g ll stones. The l w s e larged Death u i n the day following laparot my Au t Pay sho d a ha d f br us bil duct carcinoma ligth j te fth ght and left hep tic

d causing ompl t of t uction s a ca e of primary care noma of The tith as th junct of th cysts h p tic nd commo wom 66 y s of ge who had been deply; ndicedf fve months

The 1sthe ewasth t f wm 70 years of age who h d had bil ary col c for many years and had ben jaundiced for six weeks. Four years ago she had had a cholecystostomy for stones. The author removed a stone from the common duct and per formed a cholecystectomy. Death occurred the nead by At autopsy the common duct was found markedly dilated and the ampulla of Vater involved by a carcinoma.

Verse G Burger M D

Inlow W DeP The Spleen and Digestion Study
IV The Spleen and Billiary Secretion The
Reaction in Bile Pigment Secretion Following
Splenectomy Am J W Sc 1924 civy

The author reports experimental data regarding the biliary secretion in four dogs three of v hich were solenectomized

In normal dogs with bulary fistule; it was found that the greates flow of bile occurs during the feeding of meat and the least during fasting. The amount of bile acid fluctuates decidedly, it seems greatest on meals of lard and of meat and varies decidedly with the amount of bile secreted. The out put of bile pigment from hour to hour is remarkaft bullow in the secreted of the output of bile pigment from hour to hour is remarkaft but of the secreted and high when the secreted the concentration of pigment is low bent amount of bile is sgreat and high when the amount of bile is small. The total amount of pigment remains about constant On the average about 3 mgm of bilirubin are secreted for each kulogram of body weight in six hours. The output of pigment

seems to be little influenced by the food Following splencetomy the amount of bile secreted when food is given is increased about one fourth above the amount under similar conditions before splenctomy. Fluctuations in the amount of bil are more marked. The amount of bil acid remnin about the same. There is an immediate slight rise in the percentage of hamoglobin in the peripheral blood and in the erythrocyte count which is followed by an emia in which the percentage of hæmoglobin falls more rapidly and tends to return toward the normal more rapidly than does the enythrocyte count. The curve representing the output of bili rubin resembles that repre enting the percentage of ha-morlobin. An immediate rise after splenectomy is followed by a fall to much below the normal which most marked between the tenth and to enty fifth days The curve then rises again The fluctuations in output of bile pigment are much more marked When the pigment secreted is determined during a sufficiently long time the average amount is found to remain the same The author suggests that the disagreement in the find nes of previous investigators may be merely an expression of the reaction mentioned and due to differences in the length of time after splenectomy at which the determinations were made

It is probable that there is a normal cyclic variation in the output of bile pigment. The chief fluctuations consistent to come at intervals of approximately one month bet e n these are minor fluctuations. The fluctuations are markedly accentuated by removal of the spicen.

The hypothesis is proposed that the factor or factors responsible for the blood picture after splenectomy are responsible also for the reaction in the secretion of bile pigment after removal of the pleen and that if there is a cyclic mechanism in the elaboration of bile pigment the spleen everuses a regulatory influence upon this obtenomenon.

I S BOLLMAN M D

GYNECOLOGY

UTERUS

Whitehouse B and Featherstone H Certain
Observations on the Innervation of the Uterus
J Ob t & Gynac Bril Emp. 1923 x 555

The problem of uterine innervation and the nervous mechanism controlling partinition has in terested the phys ologist for many years and is of considerable practical importance to the obstetii

The theories generally accepted today may be summarized as follows

The nervous mechanism controlling the uterus is constituted by three systems (1) local (2) sympathetic (3) lumbosacral autonomic
 The local system is capable of producing thyth

mical uterine contractions and is independent of the sympathetic and autonomic systems in common with other involuntary muscle

The sympathetic stimuli are motor to the

3 The sympathetic stimuli are motor to the circular muscle fibers and inhibitory to the longitudinal bundles

4 The lumb ar cord stimuli are motor to the longitudinal fibers and have an inhibitory effect on the circular fibers

5 Both autonomic and sympathetic stimuli are controlled by higher centers in the medulla and possibly in the cortex but are capable of acting independently

6 Reflexes autonomic and sympathetic are probably important factors in normal uterine con traction 7 The effect of uterine contractions depends

upon the integrity and correctly adjusted balance of the autonomic and sympathetic impulses. Disturb ances in either whether in the direction of aug mentation or diminution will interfere with the

normal course of parturnts a

In the class cal crasteran section the advantages of lumbar anexthesa either all neer comb ned with general anexthesa a evident. When inhibitors stimuli fir in the lumbar cord are clim nated about this popularite impulses are allowed full play the circular muscle fishers of the stress contract family and in so doing reduce homour family and in so doing reduce homour and fire afformed are consumed in one consumer to the consumer family and the second fire the consumer family and the first second fire the consumer family and the first second for the consumer family and the first second fire consumer family and the consumer f

also more marked ever ion of the edges of the uter ine nets on than usual and consequently the in troduction of the uterin autures and accurate co aptation of the cut surfaces are facilitated

In cases in which a temporary increase of intra uterine tension is indicated as in ante partium ham orrhage from premature separation of a normall situated pl centa it is possible that this may be obtained by means of lumbar cocamization vitho to k of inducing labor

In placenta przevi on the other hand although the hamorthage might be controlled temporaris by contraction of the lo er uterine segment it is probable that subsequently it would be increased because of greater separation of the placents

When the uterus is exhausted spinal anæsthesia will undoubtedly diminish the tendency to post partium hæmorrhage. In the cases observed it diminished the amount of bleeding which occurred from the placental site.

For the s me reason the authors prefer spinal to general mesthesia when it is necessary to e acuate the uterus by the aginal route during the earler months of prepagate.

Tonc uterine contract on during labor as in cases of contra tion ring and si called rigid cervix the autho s attribute to e cessive sympathetic stimula

Certa n ca es of intrin c dysmenorthera may have a similar ti logy ince each menstrual per od is a min atu e labo

The author warn agant the employment of spunal anosthe ia in cases of normal labor. By its use d latait in of the cerva is delayed and even if it is induced at the beginning of the second state the expulse to power of the uterus is dimin hed and forceps deli ery with its attendant risks may be thereby rende ed necessary.

EDW RD L COR TELL MD

Peter L El ctrothe mocautery Treatment of Leucorshum Due to End cervicitis C I for a SI k J M 2 3 5 3

The true importance of bronic indocervicitis has been fully appre 1 ted only in r cent years

The to diton 1 often attended ith pain in the pelvas and b ck which disappe is without other treatment when the endoc ricit's is circled a some ca es this focus of infection may he systemic flects. E docervit it's 1 a common cause of strilly and the construct irritation may result in cancer.

In the p st the treatment of endocervicits has been a versit ble bits nare for both the general prictit oner and the general prictioner and the general prictioner and the general prictioner and the same that it is not the current and an object to the cervity and one but the cast it sometimes caused or the cervity of the

in an attempt to eradicate the diseased tissues but recurrence was the rule

The cautery should be especially efficacious in conn endocrivatis due to gonorrhean infection because the geneococcus is susceptible to even companitudy lond degrees of heat. This organism has been destroyed in the tissues by prolonged immer son in hot water by hot pair treatment and even by hypersyreams. It therefore seems probable that the usuare between the cautier incisions sufficient to kill the infecting organisms without destroying the tissue cell in the classical production of the control of the control

Corbus B C and O Connor V J The Treatment of Conorrhocal Endocervicitis by Heat S ; Gy & & Obst 1924 v 1 119

The authors review the work of Cuttis and others who demonstrated that the tubes and endometrium play a minor rôle in the persistence of endocervical infection. The most infectious and persistent distance comes from the endocervical glands. There fore the treatment must be directed toward destroying the gonococcus with the least impairment of

The gonococcus is instantly destroyed at a temperature of 113 degrees F and prolonged exposure to a somewhat lower temperature gradually brings about its dissintegration

The authors have used duathermy with a thermo phore constructed so that the active electrode can be applied to the cervit. It is absolutely nece sary to insure the project reimperature. The technique is given in detail. The temperature is maintained at 1800 117 degrees? For from thirty to forty minutes and the treatments which are pa niess are repeated every week or ten days. Bette en treatments a irredition of the contraction of the contraction

Thath five women were treated by the method reenty two were under observations for the years and eighteen for three years. All showed complete and permanent elimination of the genoseccus. Furteen disappeared from obse vation after the term nation of active treatment. The lowest number of teat ments given in any one case was four and the highest fourteen.

In conclusion the autho's discuss the clinical application of the teatment a dithe contained tions

ROLA D S C ON M D

Mondo H. Diffuse Fatal Suppurating Per tonitie
Occurring in the Course of Ro night Treat
m nt in a Case of Fibrory and of the Ureus
(Pe tont upput é d'is must in au
us d'ut temnt d'ishap mail
maile tte te de fibror té n) B ll s se

S d k d P 923 1 5 4

The patient was given roentgen t eatment three times without any intra uter ne manipulation the last treatment being given on May 31 19 when she was menstruating. In the night of June 1 she wook with a sudden sharp pain in the Jower ab domen. This was followed by a severe attrck of comiting and calmess On June she was admitted to the hospital. Her temperature was then 50.4 degrees C and her pulse 170. Examination on palpation. Some rigidity was present this was most marked in the left quadrant where the pain was most intense. A diagnosis of diffuse peritonities of tubal origin was made.

Under general anasthewa exploratory Japarotomy appeared to When the perstoneum was opened a large amount of green pus escaped A fibromsoma the size of a grapefrust was found on the fundus of the uterus a large ruptured pyosalipus on the left side and an unruptured pyosalipus the size of the thumb on the right side. A supracervical hysterectomy, as performed with the establishment of ab lominal drainage.

The patient died to o days later Permission for autopsy was refused and no bacteriological examination of the pus was made

The author urges more thorough pelvic examination to determine the absence of contra indications before the \(^1\) ray or radium is used therapeutically \(^1\) LAGER DIPAINA MID

Reder F Lesions of the Cervical Stump of a Supra aginally Ablated Uterus Am J Ob 1

If the patient has a family history of malignancy the assumption of the inherited tendency of a constitutional predisposition is sufficient to warrant total hysterectomy. In cases of cervical lacerations he has to de eloped an extreme ectoric condition complete ablation of the uterus should be under taken

Women with cervical disease amenable to a rlastic operation and still in active sex life should be sub jected to supravaginal section as the preferable opera tion. In these cases a simple but thorough I lastic should be reformed on the cervix sufficient in scope to emove all of the diseased tissue Special pre cautions however should be exercised in equalizing the wound surfaces created by the wedge shaped excisions in order that good apposition of the newly formed lips may be obtained Such a cervix after healing is perfectly smooth and healthy in at pear ance and all that emains of the cervical canal is almost completely obliterated The removal of the cervical tissue should be as extensive as is judged consistent since it is presumed upon histologic ground that the removal of a large amount of the glandular portions of the cervix proportionately dimin she the chances of subsequent carcinomatous deveneration

In virg is cancer of the cervix is extremely rare Because of this fact the cervix should be spared thenever possible in operatine procedures for fibroid ute us in young women

Abi Vagi Vbd V gr

ADNEXAL AND PERIUTERINE CONDITIONS

// cinet	P	and	i Sug	lbι	17 1	R	Th	e Oper	rativ
Tr:	ıtm	ent :	of Inf	lam	mati	114	αf	tle A	in ra
and	t)	e Ce	llular	Τŧ	st e	1	the	Pel is	(/ :
per	at .	en H	h n#	u r	10	14		nli	k n
z lls	١.	u ni	ngen)	А	h f	()	Ł	923	cí

Of 68 656 women examined lun i, the penod from 1911 to 1912 12 per cent were found to a mammatory disease of the adnexa Of this has e of per cent were operated upon The choice for operature route—ablom and r vaps als is used by the authors in detail I ch as was treated acr dng to its staticular resurrements.

In a series of 50 cases the caus was letermine in too In 4, spece test it was a ju recal in (ct in in 2) per cent 2000 or he in 20 per in tubecu tools. Operations was considered in his first the fair to continue to the con

In sixty mine rad cal vag hil oper it in stikkint two incis ons of the uterus a ring to th. D ve Doe Irelien method) smooth haing evided in 76 per cent. In 15 oper cent that yo oper cent that wer slight comple tions and in 72 per cent 5 er c mil tat in Three were no injunes to neight in g tru tures and no deaths. The better results were du in part to the fact that rad cal ope to now b the agrat and were done in only the cas 8 n which the inflammatory askell pags were not to high of to extrematory askell pags were not to high of to extrematory askell pags were not to high of to extrematory askell pags were not to high of to extrematory.

Sharply four conserval e oper tions in which are least one ovary, as left were done I the all firm at route and se enly six by the agon I out Off the former 73.4 pt cent were I lio et by a mooth convalence 13 per cent be slight complications and 12 pt cent were I lio et by a mooth one 12 pt cent was and 12 pt cent be seen in a cess subject of the conservative operation by the agonal r ut that was one death. This howe the cannot de stiff the to the operation as the pit ent was f I lowed by smooth had one of the per tin was f I lowed by smooth had not per cent was fill lowed by smooth had not per cent was fill one of the per till seve e.c. m. pit eathors.

In discussing to servative pe at on the authors emphasize the alue of antefixation of the ute u Drainag should be established whin the orang of wound secretions is expected after operative reliate of the addressors.

The end results in n nety six ca e i nfiamm t ry conditi ns other th n genital and fer t neal tube culps sare tabulated a foll ws

Oletai	Cases	result	re le
maldel inaldal mplen natie	4 21 3	Prc t 87 8 66 6 76 9	Perc t
nale rvatre	21	750	250

In one case another operation—as necessary I ter and in three there were subs quent pregnancies The authors recommend a stretly conservative

The authors recommend a streth conservative attitude in the ter timent i inflammator of ea e of the a inexa an i the cellular tissues of the pla is an oily to per tent of the case reviewed was the practical properties of the plant of the properties of the plant of the properties of

Weherlit E. Systematic Studies of the Wight of the O arie in Relatin to Other Gland of Internal Secretion and the Uterus (S. t. m. tisch. C. wicht. t. s. cho. gr. a. O. a. m. tisch. but u.g. a. dr. bruse m.t. t. s. k. c. w. fr. h. Bizchu g. zum Ltru.) 71. k. f. k. tit. l. 19.31. (

In the weighing of organs taken from cadavers only those showing in changes were selected. The org is upon which the author's stude se were back were jo and so, uter 520 thyroid glind; so thymus glind; and you suprise all glands. The weights are how in the follo ing table.

	Ova es Cra	t j	Thyro i	ena) Gm
hut im th	0 06	88	2 08	39
t am ti	53	36	2 00	28
tşe		86	4 30	5 99
t 'y	•	35	7 68	50
t	663	6 7	8 6	9 77
t to rv	97	46 43	7	1 5
3 1 4 14	9.3	5 7	9	2 5
4 (79	0 45	57	9 06	1 9
t tho re	4 90	49 S	3 8	4
not in	10	39 5	3 64	2 3
مر ا	4 3	37 55	7 1	1 0

The 1 ac n the weight of the ute u and the 1 ac n | faint betwe n two aid twelve modified what it was b t e n one hour and one month s 1 in nd b s necturogene is In the determination of the wight of the uterus no distinction a made between w m n who had not the distinction and the winh had n t. The diproportionate we ght of the thirly in the third decede; a dut not let usually selected the distinction of the state of the color of the distinction of the state of the color of the state of the sta

The average weight of the thymus was not calculated because this gland reacts to every disease process by a breaking doy nof til suc-

From the average for the upravent glands the author oncludes that the capito of the c glan is a not greath influenced by disease. The fact that the average weights determined were higher than those given by other investigations: a secril c it to the hyper tophs of pregnancy as many of the subjects were women who had borne children. In a cond while are go in the average capits of the male given are are given the average capits of the male given are inference to the changes caused in the c organs by premance.

In more than o case, in which the veight of the onness as shoremails high the suprarenal were all oursuisally heavy but the eight of the other glind is as not above the average. Therefore it in v be assumed that the ovaries and superirenal glind sind in a more it innate relationship to one another as regard size and weight than the other glind of internal secretion. The persisting it was all appears to alter the weight of the suprarenal but in this there is no uniformity. The cight of the suprarenal glinds may be below or above the average and the superirenal glinds may be below or above the average.

MISCELLANEOUS

Meeker W. R. and Bonar B. E. Regional Anæsthe ia in Gynecology and Obstetrics S f Gy c & Ob t 9 3 x 11 8 6

The more superficial operations on the vulvaperineum and anus may be performed very satifactorily under terminal infiltration. Such operations incl. det the r moval of cysts and only being tumors of the fabri majori and m no a the e cisson of superficial fistule: perineorrh phy surge y of the terminal rectum and the removal of cervi al polyp

In by far th greate number of c es these operations may be painlessly perfor ned by blocking the sact 1 nerves by injecting n me thetic med um into the sic al canal to induce the ame the is called griddraf sacral extradural or udsl anæsthesia

For the deeper pertit as on the pelvic floor and a secta the procedure of choice for the i duct on of loc lansathe iai the combin ton of loc padur! I spection with transacral bit choice of the upper lour sarral nerves. This po edure gives a unito mily sat factory amasthesia in su g rv of the pel ic floor and uscreas by the peringal route. It has been found

sufficient for posterior resection of the carcinomatous rectum both the one and the two stage resection in which the posterior wall of the vagina may be removed with the growth Freision of multiple perineal fistule and malignant growths of the vuly a and vagina perincorrhaphy anterior colporrhaphy repair of vesicovaginal and rectovaginal fistular varinectomy amoutation of the cervix the Watkin's interposition operation viginal hysterectomy and excusion of the car inomatous urethra have been painlessly performed with this anesthesia Resic tion of the bladder may be performed painlessly when held block is added for the suprapulic incision. The borderline of us fulness of the transsacral method i found in posterior resection of a high carcinoma of the rectum or recto igmoid the Watkins interposi tion operation and the Mayo vaginal hysterectomy

In obstetites the epi tural method is more practical than it etransacral although block of the lower four sacral nerves by the latter technique with the and of a los epidural injection gives satisfactory arresthesia. A great advantage of the method is the rela atton of the pelvic floor high is more complete than in arristhesia induced by a my other method

The for er's operation version and extraction manual distution of the cervice totation and region of cervical and perineal teris may all be prunessly prformed with epideral anesthesia. This type of amasthesia may be used also for the remo all of the ute inc contents in incomplete abortions for packing the uterus and for the insertion of the colopery right.

The pains of normal labor may be controlled by this mithod although the abolition of the pain reflex takes a ay also the voluntary effort of bearing down. Howe er as the uterine contractions cortinue completion of 1 bor occurs painlessly if the parturient stodd when and how to bear down.

The greatest diff culty 1 the selection of the proper time to induce the anxistems In most cases labor ould terminate painlessly if the anasthetic could be admin tered an hour to an hour and a half before delivery. In the authors experience the miximal value of the auxistiessi 1 unally obtained then the naxistic is given after the os has diated at levst on a primarize or at least 4 cm in multiports.

The valu of regional anisthesia in sportianeous delive y ill be greatly increased when 1 means has been desi ed i hich will prolong the action of the pidural inspection Further in estigation is necessarion than subject. Possibly the dings are alreat at hand is the will enjoy the usel and combined will ament the the entire pil in floor and viscera to the subject of the subject of

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Talbot J E The Toxemia of Pregnancy Viewed from the Standp int of Chronic Sep is as th Etiological Fact r 4m J Obl Gymc 923 vi 709

The placental infarct is the result of homatog nous infection of the placental site. Unch of the pathology of the products of pregnancy so freque it is possible to the products of pregnancy is a realist dependent on the principle of homatog consist infection of the place fall site. The autocomism of the placent produces and cannot from fort of thronic septen produces an extendition from fort of thronic septen produces the product of the

The process involved in reproduction is the most we rephysiological functional test which the body has to endure. In pregnance very metabolic organis called into play. The demand of the groing fetus is a mobilizer of the organs v hich supply the chemical compounds necessary for the development.

of the ne organism

By what proces s this demand carried to the organs of the maternal sy tem? The answer raises the mooted point as to bether the metabolic changes in the body are cau ed by see En hormone alo e or whether the sympathetic nervous system.

plays an important part

Less the author's conception that the sympatheti nervous system has as its primary function the correllation of the function sof the many metabolic organs and that the blood stream is not merely a mass of chemicals and catalyzers but is assisted by the sympathetic system in maintaining equilibrium

in th fun tions of the organs

In Jrgmine unstead of the usu I balance be the n the ambobi and katabobi processes the anabobe processes exerced the katabobic processes the galance of the galance of the processes of the fellow of the processes to the fellow abone n part by the sympathetic nerrous system in its funct on of correlatin the tord of the sep rate organs. With this process goes the inc ca d strain on the exercising organs Som of the strain due to the necessary correlation b t een the metabolic and exceeding organs of the metabolic and exceeding the sympathics are the metabolic and exceeding the sympathics as stem.

The process s n ohrd n the p oductio f it to to man adopte grants. Te the mea these two led in the production of all r ct ou dis a c lin pregnancy it ere is a ondition in which a strain a placed on the potentials po of the entire metabolic system. Under this strain derangement it in excessary balance between the gan of metabolism

is more readily sell ct d and there are symptoms which are more commonly found only in the last results of more chronic d sease processes such as a chronic nephrit. An actue gene al infection such as a preumonia in the presence of pregnancy does not produce the symptoms of toximin of pregnance because its effects are brought about not so much by the sportung of bacterial emboli as by a toximin which is sufficiently severe and general on inhight sufficiently severe and general on inhight so sufficiently severe and general on inhight so when the process of the sympathetic herous system as who readyze the 3 ympathetic herous system as we have always and the sympathetic herous system as we have always the sympathetic herous system as we have always and the sympathetic herous system as we have always as the sympathetic herous system as we have always as the sympathetic herous system as we have always as the sympathetic herous system as well as the sympathetic herous system as the sympathetic herous system as well as the sympathetic herous system as well as the sympathetic herous system as the sympathetic herous system as the sympat

The many different theories advinced as to the cause of the toxemus of pregnancy are bised on the findings in different series it cases. Some of the time the liter. Intestinal auto intoricat on and meta-the literature of the feet of designation of the feet of the designation of the feet of the literature of the literatu

these explanations however has been I road enough to acro int for all cases

The author belie es that his conception shows how the kiliney or the liver may be most involved and explains why constination is usually associated with the disease Di turbance of metabolism although not always apparent in the blood chemistry is reflected in hyperstimulation of the sympathetic nervous system. The pathology of the products of e neeption is explained as damage resulting from hamatogenous injection of the placental site Young s the ry which attributes the co dition to the produ to of infarct formation is correct only in the sense that the acute infarct may act as a s condary foc is for the pread of infection and may be contemporaneous in its origin with damage of s vila nature in other organs the latter being the true truse of the sympt m

IDNAR L CORNELL MD

Mahn rt A The Consumption of Oxygen in Pregnancy and It R lationship to Fclamp la (De Ga t flueched Schwag er u d. se c R hu ge Ekl mps.) A h f Gy k o 1 13 407

In conf rm uon of the finding of Vagenus Levy and Zuntz in estigation as nate by Valhariet with the Luntz Geppert apparatus showed an increase in the respondancy cursions a die the total consumpt on of oxygan during pregnancy. Tests of the effect of the various kinds of food tuffs upon the respectively quot in the ab-pt in of oxygen and the entry of the contract o

direction of acidosis. This is expressed in a considerable reduction of the earbon dioxide content of the venous blood and of the combining capacity of carbon dioxide. The lowest values (20 to 22 per cent in contrast to a normal of so per cent) sere found in cases of eclamosia. These findings tend to confirm

the theory that eclampsia 1 an acidosis The fact that the pregnant organism cannot eliminate as much carbon dioxide as the non preg pant organi m was shown al o by the reaction of the respirators metabolism to adrenalin. In pregnancy adrenalm causes only a slight increa e in the elimina tion of carbon dioxide ZENTZ (G)

Brouha A Case of Early Ovarian Presmancy (I as de ero sesse o a i n e ieun) Ci e tab t 1023 111 335

The case reported was that of a multipara 27 years old who e menstrual period in September 1922 was eight days late. On December 25 the patient as seized with violent pain in the abdomen and collapsed A diagnosis of extra uterine pregnancy

was made

At operation the right adnexa and the left tube were found normal. The left ovary vas mobile, and on its free border was a round clot about 2 cm in diameter from which blood was 1 suing. Belie ing the hamorrhage to be due to a ruptured corpus luteum the author merely resected that particular portion of the ovary The patient made an une ent

Examination of the section removed sho elit to be composed of corpus luteum and a small lot of blood On section of the clot groups of cell found Some appeared to be multinuclear syncy tium and others of the Langhans type At one point three chorionic villi vere seen Undoubtedly there

fore this area was the site of a very early ovarian The tube on the same side appeared entirely nor mal no adhesions nor thickening being present SALVA RE DI FALM

Dietr ch H A The Treatment of Placenta Præy (De Beh dlung d Plet pe) Kl Hehth 193 702

In none of the complications of preg ancy s the danger to hie greater than in placent prævia In general practice the mortality is 20 per cent in cln c practice 76 per cent and in cases n which delivery is effected by operation 3 6 per cent. In cases of placenta centralis the mortality in general Pactice is 35 per cent in clinic practice 13 per cent and in cases of operati e delivery 3 6 per cent For the ch ld the mortality is about 80 p r cent in gen eral practice

Schweitzer reports a mortal to ir m sep s of per cent in the cases of omen examined outside the clinic 6 I er cent of thos in which tamponade was used and it per cent in those not operated on and not examined Only 25 per cent of the women came to the clinic before e amin tion

An examination by the general practitioner is un necessary as of per cent of hamorrhages in pregnancy are due to placenta prævia. In the differential diagnosis the condition must be distinguished from carcinoma of the portio and hamorrhage from a runtured varix The latter is extremely rare and not difficult to teco, pize. If the patient must be trans ported to the clinic from a considerable distance tamponade must be resorted to in spite of its grave danger It must be done with great care and with the use of the speculum Fifty per cent of women with this condition reach the clinic too late the physician is summoned because of hamorrhage at the end of pregnancy or during labor he must interfere at once Lually he does not interfere because the os uters a not vet dilated and before dilutation takes place the voman may blee! to death Artificial rupture of the amnion is to be considered only in cases of longitudinal position and strong contractions and only in cases of placenta prævn lateralis When this method fails a great deal of time and a great deal of bloo I have usually been Hence care should be exerci ed in selecting su table cases. In order not to separate the placenta st ll further it is best not to work with blunt in struments The rent should be made with one of the blades of a bullet forceps used as a hook

Braxton Hicks version is best for the general practitioner When the foot has been brought down eight must be attached but this must not exceed kgm Deli ery must be spontaneous as other

vise there is danger of tearing the cervix. On no account must the physician leave the patient until the delivery is complete. The results for the child are better when the cersix is diluted. If spontaneous birth does not follow expul ion of the bag and if there is hamorrhage the child must be turned by the foot Schweitzer has pointed out that the loss of blood is twice as great in d latation of the cervix as in version The bag should hold 600 c cm and have a d ameter of 11 cm It should be placed in position intra-o ularly The eight applied should be / kgm I disadvantage is that in 80 per cent of the cases a second intervention is necessary. In 65 per cent of 2 548 cases revie ed by Hitschmann the third stage of labor ran a smooth course. In the remainder hæmorrhages occurred these were twice as frequent I efore the delivery of the placenta as after it. In two thirds of the cases the cause was fartial ad

Abdominal compressors have been found to arrest the hæmorrhage and have rendered superfluous the use of Momburg sela tic tubing which is not without danger Sehrt's aortic clamp is particularly to be recommended If the placenta does not separate after the intravenous injection of pituglandol the Crede method should be tried if necessary under narcosis Not until this has been proved insufficient should manual separat on of the placenta be done Large doses of secale cause lasting contractions

The anæmia is to be counteracted by normal salt solution and analeptics

Agreement ha not yet been reached as to the in discussion as for covarean section. This is the method of choice in placental pravia totals and in the case of the cliedly primipara with a narrow such a toutering a nail a rigid cerve. All ence of infection is a nece vry condition. In this procedure the infain notality is sery low.

LABOR AND ITS COMPLICATIONS

Favilii (The Action of Fetal Autolysin on the Mechanism | Labor (Sull z | d ghant lizz t fet ii n i m | smo d i p tto) | Sperim | e

1915 257 1 145

Beginning with the time of H piporates the unbor reviews the various their rise advanced as to a hat causes labor to start. Umrigia in 1921 in a creat of experiments on animals noted that the subcitiancous injection of homologous fetal auto by inc cau. I abortion in a short time who the injection of for gn fetal autobians and of fresh aqueous fetal extract h 1 ne fit. It formful is that fetal autob) ins have the jon, its of exciting entirely in the distribution of the uttern in animal of the arecentract in so of the uttern in animal of the arecentract in so of the uttern in animal of the arecentract in so of the uttern in animal of the arecentract in so of the uttern in animal of the arecentract is not formed to the uttern in animal of the arecentract is not formed to the uttern in animal of the arecentract is not formed to the uttern in animal of the arecentract is not formed to the uttern in animal of the arecentract is not formed to the uttern in animal of the arecentract is not animal of the arecentract in the united to the uttern in a nimal of the arecentract is not animal of the arecentract in the united to the uttern in a nimal of the arecentract is not animal of the arecentract in the united to the uttern in a nimal of the arecentract in the united to the uttern in a nimal of the uttern in the united to the uttern in the uttern the united to the uttern in the uttern that the united the uttern the united to the uttern in the united that the united the uttern the united the uttern the united that the united the uttern the united that the united the uttern the united the uttern the united that the united the uttern the united the uttern the united the united the uttern the united the uttern the united the united the united the uttern the united the uttern the united the united the uttern the united the united the united the united the united

Figure 1 and r 1 senfs Almaga s Appelhens con Justel 5 crees of experiments on a mails in which he sing tel especially prepared and lyze fetal and radiul material and irrich angeous extre cits. In elecen experiments on guines 1 jugs in which injects in oit handogous and it fet laut hisms were tel there were three aborts in and furthers and experiments in which fore got ultimated the construction of the control of the contr

n full (r blut) one lalks occurred. The author concludes that hir rults for tagree with ibo e f Minagua and the the a tion of the utolysins was chief of a tox enture in a slopeth rule rule d if the whomon rauses whith state.

lator t the ent of pregnancy

Irving F C. Abd min Illyst rot my unde Mot pl in Scopolan ine and Local Angesthesia im J Ob i & (v 923 (88

the local anrishesus a supplement d by morphe and a soonlamme narcosis because it seems a la tinet advantage to a out the psyche element by lawing the patient obli ious to what is going on in the cruse no ocane produces its effect better of its thus supplemented. Only lower of the It true patients operated upon by this methol hal not patients operated upon by this methol hal not be the shall not have the shall not be shall not b

All ut two and a hall hours before the perat is begur the p tient is placed in a darkened room and her ears are plugged with cotton soaked in She is then given subcutaneously if ge of imponise an 1 if soo ge of scopolamine hydrohromide. The morphine is not repe ted but at forty min te morphine is not repeted but at forty min te men in the patient is no a doze. Likely like there or four suppleme tary doses of scopolamic are necess in. When the patient falls saleep a fold of a well is jived one rhe reyes and she is taken to the operating room and place I upon the table. A min state by the heal and records her pulse rate at frequent any circumstance in the patient in the patient is an any circumstance of the pulse is an interest any circumstance in the patient in the patient is an interest and provided by the patient in the patie

The site of the incision which is begun 1 at below the umblicuts and ends abo e the pubs is then infiltrate i with a percent novocaine. A hypodermic syringe with a fine needle is use! With a larger needle and syringe the operator injects the subcutance a tissue and partially infiltrates the lasca by a series of punctures made downward at right ancles to the skin surface. Viter it e mautes the

hysterot my can be begun

Phitty-one cases have been operated upon by weedfile until and on the Boston Lvi. In Hospital at st. g. of premare varyang from set or weeds to full ferm. If a many varyang from set or weeds to full ferm. If a many varyang from set or weeds to full ferm. If a many varyang the first his beautiful and the first his beautiful and scoped mine upon the fetus his been noted. Bakes that deli eted have cited more prompt! than those removed from the uterus when the operation we adone under other anatheris. It is the authors done under the hospital promises the operation of the overation to milest it around the notices.

Deli e y was effected by this method in sestence cases of heart he se with decompensation In seven cases pre iots breaks in compensation had been o ercome by it atment. One of the esteral patients did of full many embolism in the seventh day, there a week of normal convalence.

There re nine cases in which compensation had not been completely established but delivery seems in feat of t e use the past ent was losing ground On patient lie tifrom car fact future in these entited and and and there who entered with the additional spows of pre e lamptic towarms and a blood pressure of 260-160 de 1 of cardiac failure on the third las.

One pair nt entered the hospital in labor with severe de on pensation ray dily growing worse the dominal hysterotomy was let marph ne scopola mine and local a rathesia was done because it seemed to offer the only possible chance of bringing her through alive but death occurred from cardiac future at the end it tentry four ho is

In two cases of cardiorenal dis use n which delivery was flected in the manner described there

w ren deaths

Of the numeteen peties t with heart dease four lel am rial ty of an percent If the case of death

from pulmonary embolism on the seventh day is deducted the mortality from heart di ease was 15 8 per cent Since all of these patients were extremely poor surgical risks the author believes the mortality would have been high had he adopted any other

method of delivery

No deaths occurred in the remaining twelve cases which were operated upon for the follo ing indica tions nephriti three cases pulmonary tuberculosis three cases and diabetes two cases. One of the nomen with diabetes had had a previous casarean

All of the three remaining patients had been dehvered previously by carsarean section. One had acute bronchitis and was in labor the second had bronchial asthma and the third requested thi method to avoid the discomfort of general anaesthe

LOS ARD L CORNELL M D Hirst J C and Van Dolsen W W Low Cervical

Cae arean Section J im M 1 s 10 4 lr 1

The indications for exsarean section may be clas ed under the following heads

A patient in labor for a considerable time with impossible di proportion between the head and th pelvic inlet or outlet

2 Ruptured membranes usually with consider

able d latation of the cervix

Many previous examinations 3 Many previous examinations
4 Ineffectual attempts at deli ery These cases are often compl cated by prolapse of the cord or of

an extremity 5 Patients on the borderline who are subje ted to a test labor before it is decided that cæsarean

section is necessary. In these cases examination should be made by rectum Frequently several of these indications a e pres

ent in the same ca e Of course the child must be alive and in good

infection

condition The low cervical casarean section is devised particularly for cases in which the cresarean section would be unduly dangerous. It affords a safe method of delt ery when the class cal operation m ght be followed by periton ts This is its chief advantage Others of almost equal im portance are summarized by the author a fol

- ! Secure healing results as the ound is in a port on of the uterus v hich 1 at rest du ing con
- valescence 2 There are no ra suri ces or suture l nes to form the site or cause of adhesions

3 There is no so ling of the general perston al cavity by I quor amni or mecon um from an area

at least potentially infected 4 If contamy ation of the uterine wound occu s t is securely sealed extraper to eally and the drain age is naturally out through the c rv t The los er pelvis is known to be extraordinarily tolerant of

There is less shock less bleeding and less chance of postoperative complications

6 There is le s danger of rupture of the uterine scar in subsequent labors and if this should occur at a in a situation in which there is little likelihood of serious complication

The authors know of no case in their series in which the scar ruptured in a subsequent labor

In a total of 282 casarean sections of all kinds 107 vere done by the lo cervical route. All of the patients were in advanced lal or at the time and in a condition unfavorable for the classical operation Two of them died one from gangrene of the trans verse colon due to mesenteric emboli m and one from acute dilatation of the heart due to chronic myocarditis eighteen days after the operation There were no cases of peritonitis

FRILARD L. CORNELL M D.

DIFFRERIUM AND ITS COMPLICATION

Noron and Grivet A Case of Postpartum Fever Caused by Syphilis (U a de yphis fébrile ap est co hem nt) Bill S c d bi et de gy iec de P 923 11 5 3

A para 1 of 24 years (first child healthy) passed through a second labor without birth injuries. The second child al o appeared normal On the second day after delivery the patient s temperature rose to 102 2 degrees F Because there had been premature rupture of the membranes the fever was ascribed to puerperal infection but involution of the uterus occurred normally pelvic signs and symptoms of infection were absent and cultures vere negative for streptococci. The fever continued for three months and was associated with a decline in the general condition. After the development of intense headaches and the appearance of a generalized eruption a blood Wassermann test was made. The reaction was positive. An injection of neo arsphen amine was followed by rapid recovery

The author believes the fever vas caused by syphil's alone In this he does not agree with the theory that the fever in such cases is caused by streptococci wh ch are promptly subdued when the body is relieved of the spirochætal infection. In support of h s contention he cites the observations of Tavre and Coutamin on syphilis as a cause of fever ALBERT F DEGROAT M D

NEWBORN

Pi son R N Spin I and Cran al Injuries of the Baby in Breech Del eri s A Clinical and Pathological Study of Thurty Eight Cases S g Gy ec & Obst Q23 X

Of 142 infants delivered by the breech eighteen (1 per cent) died immediately or soon after birth The incidence of breech presentation was 3 per cent Of eighty seven infants delivered by version and by the breech eighteen (26 per cent) died immediately or soon after birth

Of the thirty six infants which die I sevente in (47 per cent) had a sj mal cor I hemorrhage foutten (38 per cent) fractured vertebræ and 44 per cent intracranial hæmorrhage. The intracranial hæmor hages a seveten ive in only 25 per cent.

hages as exten is monity 25 per cent.

Difficulty in d livery of the hear is as exp menced
in 37 per cent of the fat I cases difficulty in delivery
of the arms in 1 shoul less in 25 per cent and fall
faculty if my me mol te d lataty in of the cervisian.

of the arms in shoul less in a 5 for cent and this facility for min implied that also in the cervs in a per cent. Unformally of the cord and a lakest was noted in a 5 per cent. Trauma allow as six the probable cause of least in a 5 per cent applyant and payment of the except time as the physical payment of the except time and the physical payment of the except time and the payment of the except time payment of the exc

Birth injury and she k in bre ch lely ri are responsible for a greater fetal mertal ty and mor

bility than a phyxi. Unnecessary haste in breech extraction prompted by the fear of fetal asphyxia often ctu. et obstettical complications leading () litth injuries. The diagnosis of death from asphyxia in breech leli ery is justified only when there i strong clinical explane of a phyxia and none of

injury

The in idence of breech extraction may be diminished to the practice of external version when two tible up I by strict limit tion of the indicate is

for version and breech extraction

The high mortabils and morbidits finered feliciteric may be refuced by (1) management followers and dinery to effect full dilatation of the soil fast of and dinery to effect full dilatation of the soil fast of the feliciteric may be soil for the feliciteric may be soil for the feliciteric management angulations and (3) agreement angulations and (4) agreement and feliciteric feliciteric mortality for the feliciteric mortality feliciteric mortality feliciteric mortality feliciteric may be soil for the feliciteric mortality f

HARRY W. FLE M.D.

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Dobrotworski W. M. Types of Kidney Malferma tion (Leber ein ke Frm n on \ tenm bil dangen) I handl d R. Ch. K. g. Letr. d

Duning the list twenty years in 460 kidney, operations performed in eleotoff schime three came of aphans one case of hypplans five cases of horseshoe kidney, four cases of double kidney and five cases of dystopia. In this series the incidence of these anomalies was therefore 3 per cent where a pathologico anatomi attentione 3 per cent where a pathologico anatomi aper cent Guizetto a 4 per cent). The conclusion is drawn that approximately one third of persons it was a nomalies of the kidneys pass through the

Aside from tumor and subjective troubles result "ig from pressure on other organs etc. the morbidity for the pressure on other organs etc. The morbidity for the pressure on the pressure of the pelve of the lad with the deviated ourse of the netters of the lad of the deviated ourse of the netters by deponents of the deviated ourse of the netters in suggicacy of the abnormal organs results in prefet elimination of introgenous waste bacteria and tons and preclispo e to nephritis tuberculosis and progenic deseases:

The author paid particular attention to double idea, because of its practical interest and it many transitional forms. He has observed one case in which the groove marking the juncture of the to kidneys was scarcely visible. In another case the separation was so extensive that it suggested an

accessors third kidney The double ki iney always h s t o pelves As a rule these do not commun cate with each oth r The two ureters may unite or proceed separately and enter the bladder by two openings on the ame side Usually however the ureter of the lo er half passes to the oppos te side of the body as in crossed dis topia The possibility of disease limit d to one half of a double kidney is thus theoretically demonstrated but a very careful study is neces ary before such a condition can be recognized and the d seased h li extirpated The diagnosis requires the help of all of the various diagnostic methods including roentgen ray examination with pneumoperatoneum and pye lography However as these are u ually employed only when there are special clinical indications and as such indications may be absent in cases of double kidney any anomaly in the progenital tract should receive consideration and any malfo mat on elsewhere in the body should lead to a careful e aminat on of the kidneys The disco ery of a doubl kidney during operation afte normal urete s ha e been found by cystoscopy places the surgeon in a difficult position for he does not know whether there is a kidney on the other side or not or which portion of the kidney mass is diseased. The following facts offer a solution to this problem

I The ureter from the lover half of the double kidney passes to the opposite side of the body when

the kidney i mi sing on that side

When the two ureters of the double kidney enter the bladder on the same side the medial or medial caudal entrance to the bladder belongs to the upper portion of the kidney (Meyer Weigert)

Dobrot orski reported a case of hydronephrosis in a voman 55 years of age. The ind go carmine te t on the left side was distinctly positive after ighteen munites and on the right negative after forty minutes. Nephrectomy seemed fully ju tified it op ration a double kidney was found on the right. Above the single chambered sac formed by head was a cell formed second kidney. To milliong 35 cm wide and from 1 to 3 cm thick. As the nidgo carmine test on the left side was satisfactory the double kidney was extirpated. The patient made a qui L and complete recovery.

VOY DER O TEN SACLEY (Z)

Burns J E. Galculi n the k dney and Ureter D agnosis and Treatment Si & Cl n N Am 9 3 1 685

The author presents the histories of eight cases of calculin different portions of the kidney and ureter and discusses the methods of diagnosing and treating

these conditions

As ureteral and renal calcula are often mistaken fo other abdominal condit ons every patient with indefin te abdominal pain should be subjected to thorough urole cal study before operation is under taken I am on the right side is confused with that arising in the gall bladder the appendix and the right tube and ovary

While pain 1 the most common symptom as exercity bears no relation whatever to the size of the stone. It is due usually not so much to the passive of the stone as to the back pressure of the turne the pelvis of the kidney. Very frequently it is accompanied by gastion intestinal symptoms. The latter are often persistent giving rise to rather extreme prostration. In the \(^1\) ray examination about 15 per cent of calcult are not seen in the ordinary plates but are plainly made out in the pselogram

If the calculus as mile neough to pass if the kidney function is good and if there is no infection on the affected side non operative treatment should be employed Stones too large to be passed should be cmoved

C D Holmes M D

Ock thlad % 1 Larly Papitloma of the Kidney Felel C CC Y 1m 173 L 1C41

He ruth fri it the case of a min who re a fit to of a tant han atuna fra nemal of two

\tat\

On cysto c tr ex n nation blackwarf unde m me from the left ur ter. The left wreteres of the read sh cathet rite | as f r as th pel s of the kel e In the right up to the cath tow uffenter for a I tat of it at ut to em the set e was el ar Die excreti n be a in about three a 1 cn 1 lf minut s i ea h i e In thirts mirutes the nicht the violoute spercentel the lean the lite u eteral ut apere it Il la lpui mere e mi g form the likking Vravesami ton was res tiefrice fel rim wereal petices it that th I u I a fout pel i It ere were no acilf the of in eath rapecimen

Bit in the Luin i wa | i me I ma see were felt al rightly left ureter. I they suggested in I gnance

a left replie toms w s 1 ne

I xan in tun r cal le n i leral le thicket e of th treteral mu a a I some ulmuc u fam e thick Mo twint thire was a mall wit here t il ttered warry I atron al ut c mm n eter \ s ifa e ulc r tio w stou i Sect n led th Lens g f the mucha and 1 fint I am trh g be athat Incerta r a there were I ht sa ie h tw rt lk el ati whi he ethe surf cen el ets spe ra e Th't emmeditels and experts a and at a r mit a f w pin per t

Exercisch &

The urter a set show i put i I haper al a th kenne nt sulmu ou hat tah ge At several to nt le i th nu wa wa n ted In one s ct m ther w a pecul proifer toon of the jith lat cels with proje to diwnw rd int the un terlying tisu it fra fult bill of t I g nal cells all were fail will it um cribe ! fron the surro ligt u In wrac th frem nt ir mir e seem I alment. The p t re such el legi rig migni • flatt ned tatill me Intl re there w co ! Il lm fenti it of the

The kilnes she of luly a light th olut Itulales ant in un a och i fth I minally swill nell in the glm i tuft there wete na me nul tha th nim f number In general ti ha g w m I t to tlat

the column ig wis a light !! lon at a of the rtr niki t lvi n i hrot t ham singour tatt ill elt tut en phrits

They tit mal an un vittule or nilit

the hoptal tihed i

has been in perfect I alth gí er sl The auth con fers th poplima of the unter ikin pel Hibele es that r had rem sal tut se t ber () Ilius MI art to result in ur

t that

Hunner G I. Lr teral Stricture J in 3/ 4: 10 4 h 1 con

The auth r mph is a the importance of ure te al atricture la atone formation. I reteral at res are u ually f ur i in one of the areas namely from to sem bel a the rel te brim an f from a to sem. to e the thisder the a as in which neally all trictures occur I was who pas on or more ureteral sto wu wall ha e ur teral stricture

Blacking of the ureter by at ne 1 not also lute be ause the st ne u ally moves up or d n th ureter. The bi tory and unnalysis out sed care mh th r an attack is due t stretu e or calculus. Was turned cathet is in a show the presence f cal at over att les and subsequ nt poerte nogt the and was tippe I cath terizat n f the ureter may fail t sh w lurther exite ce of sto e there in fly the boton and \ ray examination my premit the t f e cal relate nicht between stone an f stret re I res made in a case of unit and dur of rathe s writers names at a may to cal a stricture on the sam a le an 1 m r ot 1 s. damage 1 the unter urin r tract in other c sest el grath mas show a the st I win th of posite & fney which wa free fr m sympt ms whit further lave t gatt reveal stratur in the a mot mies safe

Surg al tr atm t f r renal at n should not be on lertal na th ut ath n uch investigation of both uret es f e stricture a fas flat ral stri ture t usu its present in such cases I th preter shull be well 11 telt f rethe oper to The pre'mi are bit ter t dra n ge will save many k ine's fr m ecurn g t nes a I save the secon | kidne from I el pine a stone after eperati pin the knir v

pomani all cted

The find g of I lateral stricture with amptores and he irone; hr s r pyelite no e sife a dan u a pected asert c st te o the s mpt mices s ! uncest at efter to a without prehimin r u

nath infect on

It twithkiley sto es who he or haen t bee ut a cted to operate a for stone sh w m rked imi to eme t foll wing u eteral fr i ag k le i net n e ; il increases purul ne urine I the symptoms I surrear in pit of i nout th tresence of stone If the st. erauses symptoms with a nerease in its a z if the unne rema spur Itt and if th kilney fun ton feer a es opera i n is in 1 ate 1 u le sa l'ance l'age or sime other to t stre give nor in l'ates et

LO 1 NEWSCE WD

Mayo C II and W Iters W Transplantation of the L eters into th Rectum J Im M 624 10 4 1

W lters r port th endresults with the care troph I the bl dier in wh h both ureter tran pl nted i to the rectum by (If Mayo Mr flar thon i given f the Mayo technique hil aill's foll ys principle of common-duct tran 11 tation to the ureter. The right ureter is lways tran planted two weeks before the left

After transplantation of the ureters the blad ler stemo ed whenever the patient's general con lition will permit it

Both ureters were transplanted in its enty cight cases there was one death after the operation Letters of inquiry were sent to the surviving to enty seven patients from time to time. The condition of twenty thre of the twenty seven is reported

The patients were able to retain urine in the re tum on an average of from three to six hour some of them were able to retain it over night Clinical evidence of renal infection was absent there being no pain in the region of the kidney headache verti o nausea or vomiting. An interval of ten years has elapse I since the first operation in this group that on a child 7 years of a_e Thi child's health has always been good. The ages of the patients ranged from 3 to 30 years but the majority

were in the second or third decade of life The method is reported not as the only method of treating exstrophy of the bla lder surgically but because it illustrates what can be accomply hed by transplantation of both ureters into the re-turn

BLADDER URETHRA AND PENIS

Judd E S and Scholl A J Diverticulum of the Urinary Bladder S Cn & Ch1 194

In the earlier cases of diverticulum of the urinary bladder treated surgically the cond tion a often di covered accidently and the operation as carried out without consideration of the complicating I sion and at times without consideration of ma k d in lection. The mortality was high and the of rative te ults vere only fair Recent metho i of urological diagnosis however make it possible to recognize the disease the associated le ion and the infiction and sugge t the type of surgical procedure which will give the mo t satisfactory results in given case

Vesical diverticula are probably du p imarily to embryological defects in the bladder either a e k ening of the musculature usuall at the b e of the bladder ora definite hiatus in the wall of the bl dir The actual distent on an i dil tati n of the ac prob ably result in most ca es from ob t uction to the outlet of the blad fer

The most common cau e which g ne II in old men and produces distentio an I dilatata n of the diverticular sac s of struction of the ne k f the bladder due in most case to an enl ged pro tate or contraction of the neck of the bl d ler

One hundred and thirt three a of de crtt u lum of the bladd r treat d su gic ily t the M yo Chinic were studied anth regard to the tope of pe a ion performed and the postore att r ult hundred and thirty one of the jute t Complete postoperative data bta nabl in 10 cases (83 9 per cent) In 32 pr ent th ! ladd r conta ned multiple d'vert cul i Di rti la occu most commonly at the ge of grat tir ques of postatic hypert phy 60 pr tofth 1 it nts

were b tween so and to years of age. The mo t common location of the orifice 1 the region of the ureteral outlet 87 per cent of ninety ingle divertic ula were found in the location

The liverticula were completely exci ed in fifty cases Three patient (6 per cent) died. In thirty seven cases in which there was obstruction of the ve ical outlet the diverticulum was excited and pro tatectomy performed. Three patients died (8 1 per c nt) In forty ix cases the diverticulum was not remove !

The ureter was in olved in the diverticulum in five cases in one it was tran planted to a healthy portion of the bladder. In four cases in which the ureter was dilated it i as ligated out and allowed to drop back into the oun i

In thenty cases the diverticula were associated with stones. In nine the calculi were in the divertic ulum in eight in the bladder and in three in the

bla lder and the diverticulum

Carcinoma occurred in the di erticulum in four ca es Three of these 1 atient died shortly after operation and the fourth died two year after reect on of the inverticulum. In six cases carcinoma of the bladder and di crticula were found Three f these patients died shortly after op ration one li ed 1 teen months and one three years. The th had a recurrence eight months after excision of the involved area

Of the six patient who di I f llo ving excision of the di erticula fi e di las ar sult of r nal infection nd obstruction most of them ha! both acute and chron c nephriti The sixth patient who died of pulmonary ent oh m al o had chronic nephritis

ALBERT I SCHOOL MID

Caulk J R and Sanford J H An Analytical Study of 100 Cases of Selected Vesical Neck Obstructions Operated upon by the Author's Cautery Punch J I 1 9 4 x 45

The 1 seer grade ob tru tions at the internal al oritce are di id d into the well known bar formati ns an I the so calle I collar involvements Of the latter there are f ur cla ses The author d s ribe each clas and analyze 100 operative case represent ng all types Neith r age nor the chin cal p cture affords material ai I in the differer tiation of these from the larger ob tructions. The hagnos I pen i entirely upon r nol palpat on and cysto scop c findings

The technique of the use of the author's cauter punch i describe! The results of the treatment in elected groups and individual patients are report 1 On the wh le the effect 1 very satisfactors

JOHN C CREETI AM MID

GENITAL ORGANS Kuttner Surg ry of the Prostate (I to ta a hir re) 4 I ammidd i hG: ll ch f Ch 923

Kuttner di cuss I hypertrophy atrophy and carcinoma of the prostate The pathological picture Ipt tate hypertrophs in latrophy presents much tat is still unreal sauer). American sauly is an in the study of it electronal secret in shaw not affiging much to our knowledge. It is, this may howe er that in hypertrophy to the rui limitary plan fuller; it toom the present of the rui limitary plan fuller; it toom the present of the rui limitary plan fuller; it toom the present of the rui limitary plan fuller; it toom the present of the rui limitary plan fuller; it toom the present of the rui limitary plan fuller; it is not because of the rui limitary plan fuller; it is not because of the rui limitary plan fuller; it is not present the rui limitary plan fuller. It is not present the rui limitary plan fuller in the rui limitar

th pertrophy of the lateral I less. With the art to the capit it is in which operate it in higher a six in higher to the capit it is in higher and it in higher and it in higher and it the capiton of the higher and it the capiton of the higher and it the capiton in the capiton

Why no operation has being the fet in there is a choice of the journay till or the period in use. This statistics soperations person the first attential metal and statistics as approximate the sappay able in the Mattership is ellected a poor cases of sure; he were to make a mortality of a person to all 800 cases of perno all operations with a mort lity of 6 person. I have the often first thin it it, by the perno all services.

ation is somewhat I wer kuting of grifer the suprapulife proclure It ais not get on it

simt tity fte bn a e niaft r re It is true that the methal introductil A wicker r pres nts an improvem nt i the penical perat n but its fisafia t ges are a gre to rik fing ? to the s ctum persistence of vesi I fi tulk in continence and an unix orable effect on the sex function tibe I st is n t uncormo alu aft t th suprapubic operation) huttner th relor bele a that the sut rapuble in thed arried out in on retwo stages is usually the best ; roce lure I ut that if th re is a suggest in of tumor or oth r perol cats as the perin al route according to be leker to the test He dies n t agree with laye that a se re br n chitis is an indicat on f r the per neal r ite sin if nec sars patients can fea e the bet ju ta ea ? after the auptapubic operation as aft riff fie-

Watering of the ve real fistul 1 oft n x the clifficity in the supragul coperation. Ope arg up with limit ana tents may cau e se ere p in Som mee the! we does not take place Oper to wife ing is lang reus. In such cases the received ing is lang reus. In such cases the received ing is lang reus. In such cases the received ing is lang reus. In such cases the received in the control of the control of the such control of the co

After the operation a narrow tute is introduced and left in place for twenty four hours. If the flow

from the fistula has not limit shed after et ht days a perma ent catheter is inseried

Iodissing, a fired direus in a fifthe sations penneal or though (took ker Wulma Bern). Ichleused a) kuttar ratated that in some cases partie ut it veases of cared owns of the provide the two or thou may be combined. Other procedures up 30 if the many that the combined of the provider of the jared with pro-tatectoms. In attrophy of the protate protatation without hypertrophy the diagrams is so often ery 31 cult and can be made only to exclusion. The condition occurs in earl 1 e. The exclusion. The condition occurs in earl 1 e. The exclusion. The condition occurs in earlier to the own my to be the procedure of the condition of the own my to be the procedure of the con-

The press is of executing servicing orable. There are two eases of hyperity phy to one of earter on. Three types or be disting the difference of the present of the present of the present of the which remains for a long time intracapaint (1) the or mail nail the which extends to

ne ht ring part (3) the type which a pears in

The thirst person utility does ere lifest at opera to first improfesse to fifth overative resulwith har utility to poor from stall via 3 perce to) an estilidization of the stall importance. The lag is can be in decriticated by the stopy. The lifestility as your purification.

bretti a (Z)

Darn y J D and Cibert A C. S m Clinical Observations on Cancer 1 the Prostate B !

If any first the second product of the second secon

t am it fairt m v tt smooth and verv litt!

Litate i for so m multie can er The peri
eal operat m v c mplet ly remove the obstruc
tt Th t tale v a umpt she it v the sa ra

ti Thi

from bet Ifm to to a are pre ent a pas sgif m I Who th bid de iss vol el supra tuls trigil R hum me be of service but it should be used very carefully Deep \ ray therapy is indicated in all cases In conclusion the authors emphasize the following

Doints

. Cases of cancer of the prostate are usually seen at an earlier age than those of adenoma. In the former the urine 1 clearer the kidney function is better and the general condition 1 very good. In some cases however the urinary symptoms may be very slight and the general condition very poor

2 \ ray plates of the skeleton should be made as a routine measure

3 Less extensive operations are indicated when metastases are present

4 Surgery offers more than radium alone but the two combined are often very helpful. Deen \ ray therapy will often relieve pain and inhibit growth Rectal examination should be made in the case

of every patient past middle age CLAUDE D LICKRELL M D

llinman F and Gibson T E Tumors of the Epid dymis Spermatic Cord and Testicular Tunics A Review of the Literature and a Report of Three New Cases 1 h S g

A case of fibroma of the spermatic ord and two cases of epithelial neoplasm of the epidid n s are reported because of their unusual features and th ir extreme rarity and a comprehensi e classin tion of tumors of the spermatic cord epididymis and testicular tunics is submitted A review of the litera ture shows that of the tumors involving these three structures those involving the spermatic co d are the most common constituting 90 per cent of the entire group. Of the individual types of tumors lipomata are found most frequently and surcomata are next most numerous Dermoids fibromata and myomata are third in order of frequency

Lipomata must be differentiated from f t hern a The latter is much more common and may cont in a peritoneal sac which at operation is a source of danger Sarcomata represent at least 24 7 per cent of all cord tumors The r clinical picture esembles that of teratoma testis Usually they apparently

anse from benign cond tions

Fibroma of the cord occurs about one third as often as lipoma. In most cases it apparently arises from the cord near its juncture with the epididy mi Trauma is rarely mentioned as a factor Mytoma and leiomyoma are extremely rare in the cord

Dermoid cysts are of appro imately the same f equency as fibroma They are all of the imple type Their origin is difficult to explain

In the epid dymis sarcoma is again the most common neoplasm at least ten authentic cases having been reported Only one case of lipoma six of leiomyoma and four of carcinoma may be con sidered as authentic

No authentic cases of de moid fibroma or mvx oma were found in the literature

Four authentic cases of fibroma of the tunica albuginea are tabulated No sarcomata are reported A single authentic case of lipoma of the tunica vaginalis has been found. About thirteen cases of fibroma typ of rhabdomyoma and twelve of sar coma of the tunica vaginalis have been reported Epithelial neoplasms are extremely rare two cases of adenomatous tumors and another reported as lymphangio endothelioma are probably the only authentic cases of growths of this nature

Particularly significant is the relative frequency of malignant growths in the spermatic cord epi di lymis and testicular tunics. Sarcoma is the tyne most frequently encountered in these structures as a

Lipomata and dermoids commonly occupy the inguinal canal while other types of tumors are generally intrascrotal Malignant tumors however follow the course of testicular tumors and metasta size to the same primary lymph zones retroperi toneally along the aorta and vena cava

LOUIS NEUWELT M D

MISCELLANFORS

Beer E Chronic Retention of Urine in Young Boys An S g 19 4 lxx1 264

In chronic retention of urine in young boys from obstruction at the neck of the bladder there is nocturnal and diurnal enuresis possibly with strain ing it urination Dribbling occurs frequently Ivu ia perhaps accompanied by pain over the bladder and in one or both kidneys may be perma nent Chronic sepsis is associated with deteriora tion of the general condition and a pallor resembling that of chronic nephritis If a sufficient amount of the k dney parenchyma is destroyed renal in suff ciency develops The urine may or may not be turbid and may or may not be passed in a fair stream The hypogastrium reveals a tumor which is the en larged distended bladder containing residual urine The mass may be asymmetrical When infected it may be tender and if deflected to the right side may suggest an absces of the appendix

I atholog cally there is no obstruction in the posterior or anterior urethra The bladder i greatly hypertrophied and pouched one or both ureters are d stended and one or both kidneys are hydro nephrotic or pyonephrotic. The spinal cord shows the so called inflammatory infiltration near the anterior horn cells or there may be delayed myelini zation The neurological findings are not conclusive LOUIS NEUWELT M D

Young H H Urinary Antisept cs J U ol 924

Urinary infection is by no means simple In in fection of the lower urinary tract the prostate semi nal vesicles vas deferens epididymis teeth tonsils sinuses or colon may cause re infection of the uri nary tract In the treatment of the local lesion the adnexa such as the kidney tubules prostate seminal ves cles and epi hdym's must be cons lered before permanent sterilization can be expected

In the s lection of antiseptics their germicidal strength toxicity irritability coagulabil ty in serum urire and body fluds and penetration must be consid red The antiseptic drugs in general use

vary greatly in the se respect

Meroxyl is more powerful against the colon bacil lus than against the staphylicoccus. Next to mer oxyl mercurophen is the most active antiseptic in s rum in one minute exposures with the staphylocorcus Next in order is mercurochrome

Ag it t the genecoccus meroxyl is far more powerful than all other antiserties. The next most effecti e is mercurochrome

As regards gonococcal infections Young state that several of the ne anti-ept c and part cularly meroxyl are agents which may be f und of g eat value Most of these drugs cause little of no ifritation y ben u elim the proper strength and practical exp rience shows that all urethral injections and irrigations should be fairly dilu e

Si ver nitrate has retained its position because the pronounced react on which it sets up produces hyperami and gives re ults high are not to be aplained by germicidal activity As it loss not penetrate it is most aluable for surface af plicat ons

Th refor Penetration is of gre t importance although meroxyl shows a wonderful germicid l power it is not in many cases as eff ctive as mercuro

chrome In the treatment of infections of the 1 wer urinary tract the author almost invariably treats not only the blad ler but also the pro-tate and s minal vest cles. His u u i pl n s to ma sage the pr state and vesicles three tines a cek and then it igate the bladder by hydraul c ; res ure with ; 900 mero 31 and after the a voi led to nject a per cent mercurochrome into the prost tic ur thri In some ca s the mercuroche me i injected through a urethro scope into the ejaculatory ducts ampulle and v s

Young states that m reutoch ome is of value wh n given intravenously not only b c u e of its a to a a urin ry anti-critic but allo because of its eff it upon gen ral i ections One of his ca s dagno d

as colon bacillus pyclitis vas sterilized by one intravenous injection of 40 c.cm of a 1 per cent solut on of mercurochrome (5 mgm per kilo of body reight) It is interesting to note that in this instance dead bacille were found in the ur ne for three days and that subsequently no bacil i were found either on slid s or in cultures. A case of pyeliti due to bacillus coli was similarly cured by one intravenous injection of m reurochrome but t o others were no sterilized Ithough greatly benefited Later one of these cases was given o 6 gm of neoar phenam n the infection then promptly disappeared and the urin remained ster le

Young says that the use of arsphenamit has bee previously reported. One of his cases was that of a child ath a very severe colon bac llus infection of the ki incy associated with high few r for m ny weeks The intravenous injects n of nov menober z i was followed by quick recovery flowever in other cases with the same organisms no re ults were ob tained by this treatment Lorus Gross M D

Minet H nd D halos f The Present Stat s of V ccin and Serotherapy in G norrhora (Etat tuld l , emother ; et d la se other pee gn retec) Id I mel etch

Warm aqueous accines are the most efficacious The coagulat on of the antigen assures their regular d flus on The concentrat on must be strong with from two to six bill on organ sms per cubic ce iti meter but the dosage must b mcrea ed progres sively and gradually The best method of giving the vacci e i by subcut neous or inframuscular injec

tion. Whether a monoval nt or polyvalent vaccine is employed it must be prepared from a sto L with a kno in antigen value. The mo t common secondary invaders are staphy lococci and the p eudo-diphtheria bacillus. These may be incorporated in the va cine To obtain a therapeutic result with a coinot berapy it i nec ssary to compute not o ly the antigen

alue of the vaccine but al o the react ons of the p tient. A patient who dies not react to the ant gin given i'll rec ive no benefit from a vaccine c'n ta ni g it The antigonococcus serum prepar d by the Past ur In titute h s yielded remarkable results in a thr ti and in g nerali ed infections. It is admin ste ed ubcutaneously or intr muscularly

LOYAL E D VIS M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES IGINTS MUSCLES TENDONS ETC

Roederer C Bone Cysts with the Exception of Hydatid Cy ts (Ie kyst s d ky t s hyda tique e ceptés) Rev d'ortlop 1923

The article of more than fifty page deal with tists that are usually solitary and have been vari ously described as essential cysts benign bone and fibrocysts ostestis C) etc solitary cysts of the long bones

Roederer finds that the confusion due to the classification of fibrocystic ostertis of the long I on th true bone cysts may be traced to the fomina tion of the ideas first of \ircho and later of

von Recklinghausen and von Mikulicz

The essential nature and formation of cv t re main unque tioned. The theory which attribute these cysts to a purely trophic disturbange of ry u or endocrine origin is plausible but h s n t b n proved The hypothesis which refers them t chronic periosteitis is not in agreement with many well recognized facts but has the advantage the tat does not exclude predisposing traumat c cau e n i the influence of specificity Certain event fi d & support this hypothesis It is probable that the tru essential exists may be produced by mr th influence

In many cases treatment by parti l blowed by curettage is sufficient Lilli & f th cavity with grafts of fat or muscl pt 1 u l but fracture may be prevented a lel r f th cavity hastened by the implintati : 1 11 o t o Periosteal graft II & Re

klugh G F The Finding of Spire 1 et Pallida in Osteomyeliti 1 y Da k Field Illi min tion with a Report of Three (a es / 1/1 C rg 024 41

In the three cases report 1 operat of 1 1 to effect a cure Examinat on by dark t li ll mina tion reveale i spirochæta pallida Klugh i i that this organism can be I t ct I n t rts v los n and de cribes the techn que I li th War mann reaction as negati e or ly LE t A cure was obtained b spe iti th aj MD

o & Josserand G Non (v tic O t iti Fibro a in th Young (Su 1 tet 11 d june ujt) Ra i ikip

I 1 B

The author reports two a s f nett abrosa in children That the nit ni but a li ferent stage or form of the d ea e pr lu ng tru bone cost is indicated by its location in the en! of ing bones most commonl the femura dh meru

its occurrence in children the similarity of its symp toms to those of the cyst forming I sease its benign cou se the pre ence of fibrous metaplasia of the marrow and cartilaginous islands the occasional association of cysts and fibrous masses and the tendency to bone resorption

Slesinger belie e that bone cysts always have th ir origin in soli i ti ue un lergoing degeneration In tend of a morbid entity a bone c st is prolably an acce ory element or repre ents an evolutionary tage in a disea e characterize! by alterations of bony to ue fibrous metaplasia of the marrow and lone r orption

In non cystic osteitis fibrosa the fl rous mass is u rounded by a thin I ny cortex covered with normal nerio teum. The limits of the diaphyscal ide may be somewhat confuse I with the normal hanhy eal to ue. The author cites several cases of tic osteitis fil rosa that healed spontaneously

ithin a remod of a year

Local estertis t bro 3 in young subjects clisely r emble both anatomico pathologically and clin ally other skeletal diseases occurring in the young which for some time have I cen regar le las distinct ntities viz co a vara of adolescence o teochon iriti and arth itis leformans of youth

I tion appear at the same age occur mo t fre qu ith in the end of the long bones particularly th ut per end of the femur have the same insidiou volution reverled e pecially by def rmities buch r ult fr m eakening of the bene with curvature or an I ha e the same ten lenes to heal The to to s areas of decalcification of the bo e

rying in form and extent but no pericateal re a ti n Microscop c stuly alvays reveals fl rou wa dinactive decilcified bons to ue 1th a t n len v to become r orled Tran ition forms mis to found I t een the typical varieties

WALT R C BERLET MD

Beye II L The Differ ntial Diagno i Between Infection of Bone and Sarcoma of B ne I & St I M S 921

The art cle is base i on a tudy of seventeen cales is reoma of bene and 231 cales of progenic in fe tion of bone

I mphasis a place I upon the necessity for a care ful analysis of the sympt ms ph ical findings and I borst 13 examinations before a diagnosis is male Subacute and chronic progenic o teomyclitis tuberculo is an i syphilis are the infecti ns of bone that most clo els simulate sarcoma

The author discusses the age incidence and the incid nee of trauma pain swelling fever tender ress and involvement of more than one tone in sarcoma and conditions re embling it

A Wassermann test should be made to all case and a tubercula test should be made whenever tuberculosis is suggested

Aside from a section for microscopic study the ray plate is the most important evidence obtain

able Fine indefinite and irregular lines of bone radiat ing out from the periosteum and becoming lost in the indistinct borders of the soft tissue are charge

tenstic of osteogenic periosteal sarcoma Aspiration of a suspected tumor and of the tissues surrounding it is frequently of value. If hus is obtained the diagnosis of infection may be made if blood sarcoma is suggested

In some cases a differential diagnosis may be impossible ithout exposure of the pathological trocess If the gro s pathology is not definite microscopical sections must be made

HERW & CHUMM M D Lewin P and Jenkinson E I Chondrocene is

Imperfecta-Achond oplasta-Chondrodystro ph a Fetalls Im J R nig of 9 4 x1 55

The authors report six cases of chan iro eges s imperfects and the observations made in thirteen dwarfs and fifty nine mi igets. A brief summary of the art cle is as follows

A m ig t is a man or oman looked at through the wrong end of the opera gla s that is d minute e but not d formed Dwarfism (chondro lystrof his fetalis) is a condition of abnormal fetal dev. lonment of cartilage It occurs also n th lower a imal The most probable theo s of it tiology is the tol fansen ie that a sm il amnior incr a es the nor mal embryonic infolling and by trostiti De Sare turing the fith or exth week of fetal lif and the reby veakens the growth of the c rtilag cells cardinal sun is the disproportion between the nor mal body length and the sh et extremities. Other characterist cs are an exce s of kin and fat in folds and pug pose Ih hand are short and chubby and the ingers of nearly equilingth cmp off the metacarnals like the spokes of a vheel I romi n nce of the abdomen and aggerated lumbar lordosis are almost constant. The roentgenological evidenc is most in ried in the epiphy e and epiphyseal cartilages especially those of the long bones The appearance of the perioste im seems to

sho no change The art cle contains eight illustrations R C LO ER & MD bibliography

Bristow W R A Cas of Snapping Sh ulder & Jo tS e 024

The case reported was that of a noman 31) ears of age who was injured by a fall on the shoulder fifteen years previously Di abil ty and weakness of the arm persus ed for about eighteen month. The pa tient consulted Bristow because of a painful spap in the region of the shoulder which occurred when ever she used he arm in an abducted po iti n The pain usually lasted for bou twenty f ur hours

Exploratory operation revealed muscle fibers arising from the outer side of the short head of the bicens and extending downward and out nard to a d the long head Abduction and rotation of the arm demonstrated that this fleshy muscle rode over the tuberosity Removal of this part of the muscle was followed by uneventful recovery

The muscle was found to be the totator human a constant muscle in lower mammals and a ro un common abnormality in man

FRANK G. MURPHY M.D.

Tristant A A Ca e of Bilateral Cont nit I Syn ostosis of the Upper Part of the Radius and Ulna (Sur un cas d syno tose radio-cub t ! au pc r bilatérale t gé tale) Rer d'orin p 480 0.3

Synostosis of the upper p it of the radius and ulna is one of the rare c ngenital malformations of the arm. It consists in union of the radius and ulna where they cross each other in pronation. Up to 1914 sevents three cases had been reported and since then a few others have b en added

Tr tant reports the case of a boy 5 years of g who had a large consental inguinal herms on the left side and other malformations \ ray examina tion revealed synostesis I the upper end of the rad us and ulna for an extent of 2 cm In the great majority of the reported cases congenital syphils cems to have been a factor but in the cas no e idence of ayphilis was found

The o ly functional disturbance cau ed by th ondit on is immobil artion of the 1 mb in posit on

between pr n tion and supination

There are two di tinct tyr es of this deformity viz tadao ulnar ayno tos a with and without dislocati n of the he d of the radius. Synostosis without a s location is character acd by absence of del rmits of the wr t and absence or functional disturbance of the movements of the ion and exten ion of the elbow or only sight limitation due to the presence f osteophytes The latter are re ealed by the A ray 5 h stosis 1th di locat on causes a pseudo de formity of the san t due to deviation of the ax s of the hones of the forearm and functional impotence in ext n ion and firs on of the elbow

W A BRENNAN

Cou on O Cervical Ribs and Hype t only f the Transv r e Cervical P ocesse D real ration of the Se enth Cervical V riebra (Con c r thype troph des pophyses tran e es e 0 3 XX 1 060

The se enth cervical vertebra at the base and anterior part of its transverse process presents con stantly a supernumerary costal p int which ppears in th s tth fetal month unites with the body of the transvers pr cess in the sixth ye r and by exces we growth may form a seventh cere cal rib Rarely there a nanalo ous costal po at on the sixth fifth and even the fourth cerv cal vertebræ The

location of the costal point corresponds to the site of the development of the rib on the dorsal verte bre

Of seventy cases studied in the \ ray laboratory of the Salpetriere five had equal development of a transverse process and cervical rib only one showed a cervical rib and a normally developed process and eight an enlarged transverse process and an attached cervical rib. In fifty six cases only a hypertrophied transverse process was discovered and in the ma jonty this was bilateral Unilateral hypertrophy was found in only seven cases. In five the process appeared triangular in nine it was of the shape of an elongated tooth in eight it was hook shaped the hook being turned down in three in forty five cases the process was enlarged as a whole and thick. In twenty one cases the hypertrophied process caused pinching. A few subjects had senile spondylitis. ith cervical sinking causing approximation of the trans

Net cervical and dorsal processes
In eleven cases which were operated upon the
neric roots were found punched by the processes
occasionally the root was lifted up like the strings
of volum by the bridge and as a result was o ere l
by fibrous bundles

There are two distinct malformations (1) the hypertrophied transverse process (2) the cervical his which articulates with the vertebral body and the large transverse process. The associ tion of these two congenital malformations constitutes dorsal za

tion of the seventh cervical vertebra

In forty five cases inch could be follo ed Inicilly the author found hypertrophied trans e-sprocesses and erevical ribs at all ages but most frequently in persons in middle life. Only th ricenof the forty five patients were males (Salpetinere receives a greater number of women). In only to cases was the cervical rib discovered by patjast in la the majority its presence v. as suggested by disulbances in the arm. In t. ent. ca. es the symp-

toms were bilateral

The pain may be most se ere on the de of the
least developed rib. In two cases the onset of vmp
toms was abrupt. In all there vere subjective
sensory disturbances such as pricking se sat on
and usually these were diffuse. C amp t. tchings

an i numbness vere rare

Objective sensory changes ere unusual in sec encases there was diminut on of sensation with a root distribution in four pain on pressu e on the nerve trunks of the upper extremity and in me a tue sixteregoness. Motor trouble was so Idom noted

Most patients and force of the most of the

Radial and olectanon reflex disturbances were trare and variable Cenerally, the tendon reflex was weaker on the side of the subjective disturbances in four cases there were electrical reaction changes in four others vascular trouble v as indicated by coldine s of the hand or disturbance of perspiration the hand was sometime pale and sometimes red or volot. Eleven cases sho ed any mmetro of arterial tension high vas either increased or decreased on the side of the Isson

the safe of the isson

Sympathers meeting a series of the less on no difference in the color of the tv to side of the less on no difference in the color of the tv to side of the less on the safe of the on the side of the tree was noted. In only one case was the pilomotor reflex diminished in the safe of the less on The oculocardiac reflew was usually normal. In the case of one very emotional patient p essure on the eyeball caused the pulse to fall from 3 to 38 in another case the reflex was error end Affermalian and pilocarpine tests were not tree, which was more marked on the side of the most a twe disturbance.

The di turbances consequent on root phenomena or paraplegia of cervical origin at times give rise to the syndromes of amyotrophic lateral sclerosis cervical Pott's disea e cervical spina bifidit psycho-

neuropathic eddema or syringomielia. The operative treatment consists in resection of the hypertrophied transverse process and the cervical rib and dissection and removal of fibrous adhesions compressing the nerve roots. Surgical interference results generally in very rapid regression of the sensors and electrical disturbances and the claw muscular attophis. electra distributions import in the sometime and the control of t

The author draws the following conclusions

To the conception of cervical rib should be added that of hypertrophy of the seventh cervical transverse process

The syndromes of cervical ribs and of hyper trophial transverse processes are the same and con s st chiefly of subjective disturbances of the upper extremites. The X-ray completes the diagnosis. Hypertrophy of a transverse process occurs more often than a true cervical rib. In old persons the pre-ence of s spondyluts with sinking associated with cervical rib or transverse process malformation (congental) explains the slow appearance of the symptoms.

3 In cases of persistently annoying or intolerable disturbances surgical intervention gives very satisfactory results WALTER C BURKET M D

Desfosses P and Mouchet A Absence of the Sacrum and of the Last Two Lumbur Vertebrae (Abs. c. d. sacrum t.des d. u. d. n.è. c. tèbre lomb 1.) Rer d'orthop 19 4 xun 61

The patient a girl aged 7 / years was a full term child with breech presentation. The head and

upper trunk are normal and the arms are fairly muscular but the lower trunk and | lvis are narrow and deforme I an I the lor er hml s ar si n i r The left car fas an a therent lote It i er jaw lacks one incisor. The patient m s by means of the arms pulling the pelvi and legs along. She its lke a Bu I ha with the thighs il x i in streme abduction and external totati n. The knees are markedly flexed an I the feet are in equinovarus. In the cated posture the subumbilic it won st van is as two trans erse furror s. The distance in m th. ternum to the umbil cus measures 1) cm and that from the umbi cus to the genital a o cm. Ih fre chis flat tened and the spi e of the thir I lun bar vertel ra i very prominent. The extern I gental appear nor mal. The rectum open into the p. ter. r vag na there being no anus. The gate at his incontinence of urine and faces. Provided high active flation of the thighs on the abd m n the l w restremit have practic lly no moveme t. The feet and toes do not mo e. The hips can be m ved pas i el The left knee has light m eme to of flexion an ! extension

Wassermann test whine prix Lieutral emint in it min trin in recent muscles on the right the emile size fund the extend from the pelist the kind and on the left there seem to be to muscle in thin it is to be the enth pelis and the rise.

I tage A.T. A Rein of the Te tment of Informatile Partly a After the Acut Stage J.B.

Leggie in ha sie n wit ago ae of nitritier it i which we litring speriod of sweet hill him to he fifthe clack (the Hrazd Int ni) Parly (minus lite beer that othor it ratment hill) to see

sonath felri ymft mhubided This hill lui blerth bhb ni hot liktrelitch htbke ndltr ftersen sitiveness his disappeared massing muscle training and re-education. These we kennel muscles should be kept related by braces or spirits. Ea ly weight be aring an weakened lower extremities build be avoided. O eruse is also contribudicated Carus of the feet was found in from 35 to 45 per cent of the cases.

Tendon tran plantation to restore muscle ball ce about joints my be do e at the end of one peer long deformity and mech meal defects should be corrected prior to muscle transplantation. Muscle tran plantation should be followed be careful my cf. transing phy tolerary and re education. Three weeks after the operation I ght may see and the state of the control of the see a year of the control of

Guilt min A Observati no on Exential Cora Vara and O teoch nd itis (Ou iq es ober ti 1 co a secont ii to toch dit)

Ret de lh b arx x

Date chould his and essential to a arts are only different tapes of the same disease. In if fame, I formity of the form rall head results from et physeal change ch racterized at various periods by it generation of the in auton centers of the be of a latt in ag. I then cut in the content of the tenoral head with fragmentation of the nuclei of the tenoral head with fragmentation of the nuclei of the tenoral head article of the content of the state of the content of the tenoral head article of the state of the

When the c n lision occurs in a lolescence it is alle! sential cota wara and is characterized by infirmt tion of the upper epiphysis of the femur with lownward sl. ling of the femoral head at 1st no etion on the neck. As the neck and teanile with the shall are not clanged the term cox arx is

Theon et of the die e ei gradual. Slight Imm par et regging off ei eig us associated with internutions sit class of usually moderate but occa onally et pain horte ig it in affected limb by a eral numeters upwarf inding of the great frocharter bo e Nelston s In external rotation of the leg and I nuttat in of ab fuct.

The ch reacter of the lesson is sho in bit the \tai.

The auth r reports thee cares in detail

Tu ne W C and Waugh T R Glant Cell Sarc ma of th Femu 1 Su g 923 lx 840

It is get testhat he has new ratio maganted ascroma of the femur to metast size but that in some ases the growth may recur in the same area fite remov! By many p thologists and tit is assumed to the time is are regard das not maisgrant. Be ause of this impresson the authors r port tholl messes.

The patient a man 41 years of age was struck on the left knee by a stone Swelling and pain began and in three weeks he was obliged to stop work. At the end of seventeen weeks the entire thigh yas swollen and motion was very difficult. The left legwas hard ordematous and enlarged especially over the inner aspect of the lower part of the thigh The blood count Wassermann test and urine were nega tive. The roentgenogram showed an eroding tumor in the lower end of the femur with probable calcification in its capsule. The thigh y as amputated at the upper third and the remaining upper end of the femur was disarticulated

Microscopic examination of the lark red cystic gelatinous tumor on the lower end of the femur showed elongated or spindle cell many large typi cal grant cells and spicules of bone on the peri

phery

One month after the operation the patient sudden ly complained of abdominal pain lost consciousn ss became cyanotic and died At autopsy a giant cell sarcoma was found in the left femoral vein and a secon lary thrombosis in the external iliac vein and the inferior vena cava The histologic structure of these growths was identical with that of the original tumor It is therefore concluded that they were truc metastases in the femoral vein from the bone tumor which was a typical giant cell tumor of the epulis type WILLIAM & CLARK M D

Clayton C F Internal Derangements of the Knee Joint T s St ! J W 923 1 440

The author first describe in detail the anatoms of the Lnee joint

Traumatic synovitis is characterized by par tenderness effusion and a history of injury. The treatment consists of bandaging p eferal is over wool and the application of an ic bag i tw nty four hours If the swell ng does not I egin to subside within forty eight hours after the njury a prit on advisable

In prains of the internal lateral lig ment which are characterize! by definite pain 1 ten ferness over the attachments of the ligame t and nowhe e else the treatment should consi t of rest in bed th a posterior splint and later firm band ging with elevation of the inner borde of the hoe to I re ent

tension on the I gament

When the knee i flexed and the fo t evert 1 the internal lateral I gament 1 rel v d nd th internal semilunar cartilage is ira n to ar i th cent rof th joint beneath the most promine t p t of the mesial condule of the femur If the leg is u i le is aten ied the cartilage is caught beneath the c ndyle and crushed against the tibia. The cart lage may be torn loose at its anterior extremity pf i fongitudi nally or torn across

The differential signs of a torn cartilage are severe pain firm locking iffus on and a negative

ray picture

The internal cartilage is njured much more fre quently than the external

If the case is seen soon after the injury to a carti lage while the knee is still locked the first step is reduction of the dist laced cartilage and extension of the knee If reduction a successful the joint should be immobilized in extension in a plaster cast for at least four weeks. If reduction is impossible or if after reduction locking occurs again the cartilage should be removed. After operation a posterior splint should be worn for to or three weeks After ten day passive motion may be instituted. Walk ing may be begun after two or three weeks and full e erci e resumed after eight weeks. As atrophy of the quadricens extensor is common after all serious de rangements of the knee joint steps to redevelor the attorbied muscles are an essential part of the after t eatment. Rupture of the crucial beaments may or ur in severe injuries to the knee. If the case is seen early it should be treated by prolonged rest with the knee in extension. Operative repair of the crucial ligaments has been done lut is not popular F acture of the spine of the tibia is characterized

by pain in front of the 10 nt beneath the natella and interference with extension. The condition is verified by the \ ray If the joint can be extended the t eatment should be prolonged extension if thi impossible excision of the tibial spine follo el by

prolonged immobilization in extension 1 indicated In injuries to the retropatellar pall of fat a brace limiting extension about 30 degrees should be worn Loose bodies are not uncommon in the knee. They may be due to (1) detached portion of a loose cartilage () osteo hondriti di ecans (3) detached marginal osteophytes in hypertroplic arthriti or

(4) osteochondromatosis

The symptoms of loose bolies are those of a mech nical derangement of the joint. The \ ray i of very g eat at I in the d agno i The treatment :

h lly urgical

The author then d scusses the technique of opera tions for derangements of the knee joint Prepara t on for operations should be thorough An antero medial inc sion is u ed for the removal of the internal sem lunar cartilage

For the cpair of a ruptur d internal lateral liga ment the procedure of choice i that of Wil on in

which a strip of fascia lata is employed For the removal of loo e bodies in the anterior

compartment and for inspection of the crucial I ga ments the split patella inci ion is the one of choice For the removal of loose todie in the potterior com partment the posterome ! al an i posterolateral in cision as developed by Hen lerson should be em ployed. In all operations involving the opening of the knee

joint a tourniquet shoul i be employed HERMAN SCHUMM M D

La oyenne Holl w Foot (Le ped reux) Rer d th p 93 x 512

Ifollow foot may be the result of equinus or cal caneus deformity hammer toes or metatarsus Retraction of the plantar fascia section of the Achilles tendon nervous affections and p na bilida o culta are other causes of the condition

The cause of so calle I essential hollo v foot is un known Apparently this con litton I egins in early adolesc nee and produces progre sively greater dis turbances in walking with pain an I eventu I uleer

The paralytic hellow foot is a utilly a calcaneus foot. The foot deformity is only partly responsible for the disability, the paralysis and looseners of the

joint bein the chief factors. Best les conforming to the gineral indications of the treatment of infantile paralism, the treatment of pirals lic holl w foot ought to include arthodesis and tenodesis. Restoration of the form of the foot such as may be obtained; I osteotomy on the great tuber of the first of the next less not sufficient.

The treatment of e e tall follow foot should be un lertaken only after a careful neurolo ical and reentgenelog cil examination. Iccording to the extent of it e le son it should const to section of the tertacted soft plantar it, uses or in a cuneiform osteolomy of the articul ti ns of the Instance of Chopart type. W. V. Bress, N.

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Bey II I Subperio teal Res cti n of Long Hones in Ost omyelitis An Analysi of Thi Method of Treatment with a Report of Fi e Case 5 f (v & Obi 2021) 23

Case 1 (y & 60 t 033 73

The reported re ults of subper, teal resection of the long bones in osteomyelits have not be nsufficiently convincing to warrant the choice of such an operation in preference to m re conservat we measures. Been cults attention to three fundamentals.

errors involved in this procedure.

1 The impossibility of det running accurately the extent of necrosis of the shaft. Because of this is been min to be removed with the liseased bone. The attachment of periosteum to the bone is presumptive evience of its vibility and compile supprists of periosteum does not compile experiation of periosteum does not compile to the processing of the other hand the infected half serves to maint in proper length privents angul ton bending and probological fracture and tumulate the formation.

of home

2 O casional (ailise of complete restoration of
the shaft from the remaining periosteum following
the resect on I such cases further operating work
is necessary to bridge of the gip

The langer of resulting deformity There may be definite shortening of a new shaft with his sheen common the state of the share with the sheen marked in the femur or the thomeros whe e there is no adjacent bone to act as a support it is very difficult also to prevent bowing Shortening may result from injury to the epiphyses following resection.

Reve reports five cases in only one of which a case of osteomychits of the femur was there sufficient reg. neration of bone for weight bearing In the four other cases 1 ith osteomychit is of the tibal further operation was necessary to cure the infection REVIDITES REVIOLATED.

Lim lie R C Verrall P J Platt H and Others Discus lon on the Operative Treatment of Osteo-Arthritis B t M J 10 1 1 206

Finsing Arthritis leformans is characterized by a ten lency to chrometry and the product on of more or less perman in changes in the joints or structures about the joints. Forms of arthritis with a definite kin win ctuology (for sample genorrhead arthrit) are excluded if from this chassificat in unless they are

chroner and d forming. The most important causative elements are (i) infection of the jint with a micro-organism of low virulence (i) toximis po hily from a batterial or a chemical poison (i) traums, including not only direct damage to the join structures but also the direct damage to the join structures but also the property of the poison of the property of the poison of the p

Suts, ry h sa very definite place in the treatment of arth ritis deformans but must always be secondary to a careful medical investigation and treatment of

the primary cause

The fr t steps in the treatment should be (t) the determination as far as possible of the p esence of a pecific infection or toximis (2) the determination of the presence of a mechanical cause (3) the treatment of any infection or to zemia and (4) the treatment of the more acute per ods of inflam

mation by rest
The operatic procedures which may be u end
a e (1) operations to correct pre-existing deforms
tes such for example, as ost atomy for the correct
tion of genu algum (1) operations to remove an
inter articul reases of the artists as for example
the removal of a loose bod a fore go body or
a permanently dispilated multiple and premanently
of example, unclaim to the condition of artists as
cample, unclaim of the cart with an anti-tiple
morthal saline solution or the (4) operations
to the condition of the cart with an anti-tiple
morthal saline solution or the (4) operations
the special conditions of the cart with the condition
to rende itsu or that of the limb panies
the oant being due to a mechanical as a state
the oant being due to a mechanical as

than inflammation
The following operations may be included (1)
removal of ost ophyt 5 (2) e cision of the 1 int or
arthroplasty (3) excision or arthrodesis (4) opera
t ons to alter the position of a fixed jo nt in order
to improve the functional ut lity of the limb

VERRALL The treatment may be di ided into t o parts (t) that of the cau att e disease and (t) that of the local condition Afte the former early operate e removal of all mechanical factors such as loose bodies ragged semilunar cartifages i pomata arborescentia and osteophytic outgrowths is

indicated. Cases of chronic arthritis of the prohiera the type with chronic effu ion when the causative disease is intestinal (typhoid, dysentery or bacillus oh infection) are successfully treated by ether

20.00

PLATT The essential cau of limitation of motion and pain in cases of osteo arthritis of the hip is not the pre-ence of marginal osteophytes but the dense infiltration of the capsule which becomes shortened and adherent to the femoral incek and the expansion and mushrooming of the heal of the femiliary.

The severe pain is dependent on the friction and crowding together of the two eburnited bony surfaces from which usually all traces of cartilings

are lost early

In early cases the removal of the o teophytic r m of the actabulum as part of the free eversion of the inflittated capsule is a beneficial conservative procedure. In more advanced cases arrhrodesis is of value if the patient is robust and fairly young fa the cases of older less robust patient excision of the femoral head is indicated.

SIR ROBERT JONES In the treatment of o teo arthrus rest of the painful joint is of paramount importance. In the later stages manipulation to break down adhesions and increa e motion is often

of value

In the cases of oil persons with very pointful high an operation const ting of the separatin of the thochanter the removal of a portion of the femoral of k and fixth of the thochanter the muscle stitched to the portion of the trochanter it muscle stitched to the portion of the neck contiguous to the head which not remove I from the act abulum can be done without shock. In cases in which both these are stiff and painful artholesis of one kin e straight and of the other in a slightly flexed jos tion is done.

Tetze A A Method of Mobilizing the Elbow Joint in Ankylosis (Lin M thod M 1 l zeru gdes Ell nb g ng l nk b Ankylos) B t H n Ch 10 3

The success of all method of (lbo e ct n with or without a fa cial plast c or the implantatio of fat depends to a gre t e t nt upon rt in amount of intelligence and will po er per c erance and co-operat on on the part i the part in turing

the period of the after treatment. In three cases of and l i f the elbo n m l position the author excise the joint ompletely sacrificing the e tensi n apparatus and drew the

skin flaps formed by the operation over the stumps of the bones. In this manner a hinge is a made high permitted active mot in The patients verysoon lean ed to simulate extensis in it he arm by try gradual dorsal relatation of the ontracted feason musculature of the upper arm. This method does not of course give a functionally perfect arm and it prevents the use of an app ratus requiring active extension but it his proved pplicable and of value in certain pp cial easts. Boo (Z) I ewin P A Proposed Modified Fusion Operation on the Spine A Combined Operation Producing More Rapid Ankylosis J Bo e & J 18 g

The operation de cribed is a combination of the cll known fu ion operation proposed in 1911 by libbs of New York, City and the of teoperost all grift proposed by Olher of Lyons France and executed so successfully by Delagentere of LeMans France. The technique consists in

I The cla sicul fusi n operation with the tech

The I licing of one or two osteoperiosteal graft obtained from the tibia by the technique of Delageniere in a bed of bone that has been denuded

of its o teoperiosteal layers

The puri ose of the graft is not to produce a splint but to f riish all the elements necessary in the product on of nex bone and thereby effect a more hd early ankylo is. The method is applicable to those co intons in hick hold fication is indicated such a tuberculo i fricture and scolosi but specially tuberculosis.

The advantages are a quicker and more complete solidification and reduction of the danger of pseudar throst. A continuous bony bridge is formed across the posterior portions of the bodies and laminar.

The technique of a Hibbs spine fus on operation as given by Hibbs in an article in the May 1922 is sue of the trel ires of Surgery is quoted as follows

In a casen is made through the skin and subcuta e us tis ue from above downward exposing the tips of the spinous processes of the vertebra to be fued. The periosteum over the tips of these price esses as spil to longtud nally and with a periosteal ele ator pu hed to either side leaving them bare. The perio teum and interspinous liquament in turn re still farther split and pushed forward a short dista ce from each spinous process as two lateral

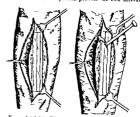


Fig r (t left) The ternal s fac of the tib ex po d d g afts o tl n d on al g de the other Fig Remo mg the g aft by m n s of the chu l The graft curl p as nt b mg emo ed

ione bone

halve g uze packs b ing in critid to prevent oozing The Insection is carried farther an I farther formar ! upen each vertebra in turn until the spin us price es a the no terror surfaces of the laming and the I we of the trun verse proce ses are lared thereby exposing the 1 amentum sul flanum attached to the margins of the luming and the articulations of the Interni proc

The I sment : rem ved fr m the lamina with a curette and the articulation of the lateral a rocesses i destroyed in order to establish bone e ntact at the moint With a f neg ug a ul tantial; ce It ne i elevate I from the a hacent edges of each I mina of half its thickn sant of half its s lith The free er 1 of the pie e frem at ve is turn 1 diwn t make c ntact with the limina bel w and the free end of the pie e form the lamina below a turned up

tamake cont ct will the lamina above I sch pin us pric s is then Lart ally divided with bon fore 1 s and 1 r ken fown foreig the tr t come into c ntact with the fare hone of the vertebra belon. The spin us proce a f the I st ertebra below should be turned ut to be e at ut centact with the next of me. As the at n us proc of the fuml r region are wide it i w metimes practical le to 11 til em t ming one half up ni the ther half lown This is e tall helic neact f abun fant cancell us hone at the rts ulation of the lat ral pricesse. I minir a 1 st 1 ous 1 roce es The period um and I am at while t geth tha e been push I to either il nil pract call a an unbroken ste t are trought t g ther n th mifft with interrut ted sutu e of ter t hr mi He ulcutan utau sethn lood with str ften I vehr mic at ut an I t ile I es nomm liles glace ril trare til 1

Ti technique f the ot perit ig ft s m Ifeislgith it n that de ribelt Del g n er and Lewin : SURCERY CAR & Y mi OF THE

Ricel r Man 120 He preclur ta f li The graft t take from the internal art couth with the use of a chi lanim lit il ng in in n made through the skin erth m 111 of th internal surface I the tiber without cutting th nerio i um Ibelittera e a celti r ughi grafts are outlin 1 itt a scalpel I h gr ft n be removed sep ratel or n I ll with gaft m he r mo el ant ut I ngitu linali with a h a ureical scr sors. The size fith grait i fet rmi el Is the are to le er ! I llowing the o th n the grafts are re no el with a chi l The l v l kent high and the cutting edge tenil ag inst th bone By varying the nchinati n n of tans th proper thicknes which is approximately the t of a ten-c at silver com Wh a the graft is remove ! 1 is place I in a comp e s and then imme h tels tr ns plante I into the be I which has been pr p red I

In the author's opinion the oste periost al graft which was first re ommen led tv Ollier ant es tablished firmly by Delagemère is the most efficient bone producer known at the pre ent time

Officer leserves the credit for or atmosted esteopernosteal graft. His results were not favorable for two reasons h u el too thick a graft and he wounds often I ecame infected To Delagemère be Logs the ere lit of placing the method on a sound ta is outlining the and cations stan larder a the technique ni ret run, the ree its of 1 1 cases. During the war the three ardent advocates of this

type of gr ft were Delagen ère I hulpo and Dut to t The author recommends very strough the ue of the outer perso te I graft as a suppl ment to the mas me hone graft i the regain of fractures of the

DA LH INDER L MD Santy P Arthrept ties (Lesath pl es) & 20t 281 1 2 (1 1/m 1

Santy f cu ses the results of arthroplasts on vari us joints acc rding to Olier's sulperiosteal t ch que In the shoul fer an i e how it has some times go en exc lient results. In the hip m to t is of tained only at the expense of lef rmity and instal that fith lower limb In the kree the in to tion for arthr thisty i given n tonly in a clous ankylores b t also in ort is ank loses when the e ni tions are good. In France arthroil to has been little use I becau up to the pre ent time Other mobilizing resections has given poor results el ewhere Only the knee ; int e n be benefte i to any c nsi leral? extent by the nexer sethods of arthrot lasty W & BRENT

Cel t F 5 An Operation of rth Aft r Treatment of Son e Cases of Congenital (Jub-Foot J 1 13 1 924

The auth I states that in a certain pe centage of his cuses of club foot a certain degree of toeing h lw vs persists recardi s file amount of over r et nuse im the first e urse I trestment Th s h attribut to n inward twist of the tr ta The to t f the operation lescribed is to u t at the till t a tran er e sul periosteal osteotomy in the r t t lout t the le irei I gre abla pli ter ast th a apriled form the toes to the groin with the knee flexe ! The cast is left in for eight to ten weeks FICHTOUP

FRACTURES AND DISLOCATIONS

Slom nn H C On th Spontaneous Recovery of Cong nital Di 1 cation of the lift I f c 1 11 1 10 1 38

he ntaneous r co e v of congenital dislocation of the hip is ty r re. He author reports to cases s Ir effs a few of those pre rously re an I r port d

Slomann first cale was that of a 2 year-old girl mh h i alkei n esh was a year ol i but alwa s with limp Clinic land \ ray examination sho el typical subluxat in of the head of the femur. Treat mer t was postponed and the patient's parents in structed to bring her back at the end of six months

The patient did not return until she was 4 years of 1 By that time most of the clinical symptoms of congental dislocation of the hip had dia appeared and the V-ray showed normal position of the head of the femurand only slight aplasia of the roof of the ace stabilism.

The second crise was that of a gril 16 months old who had just begun to walk. Chinical and \ray
examination showed sublivation of the head of the
fearir Treatment was po typoned Limping ceased
in nine month. When the pritient was seen again
at the age of 9 years the chinical symptoms had
something the principle of the principle

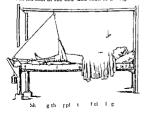
The author states that of twenty one reporte i cases of proved cong intal di location spontineous recovery can be regarded as established in only

Retweey depends on two process s (3) reposition of the bead of the femur and (3) approximation of each element of the he point to the normal. The blatter process is especially evil int in the pogress of ossication of the half of the femur after the establishment of normal function. This shrink process is the capacit of the joint is a force v hich may help in redoung the lazation. In earth majors, there is almy lemaration between the different legrees of dislocation.

Fig. M. M. 1971. W. 1971.

Russ II R II Fracture of the F mur A Clinical Study B t J S t 0 1 x 40

The treatment of fractures of the halt of the femur advocate by Ru sell requires an one head four potential that the following the following the following that the following the fol



S lb in the cases of adults and between to 4 lb in

This causes relaxation of muscle spasm and con sequently reposition of fragments. Sagging of the frigments is prevented by the knee sling and ever sion is obviated by the flexion of the knee and the hene sling. Traction to the knee does not crue strain on the lateral ligaments of the knee as is commonly thought.

commonst thought
Displacement of fragments is caused first by un
natural position and di comfort This: a result of
muscle spasm and is overcome as soon as the limb
is adjusted in a comfortable and natural position
(ravit) the second cause is overcome by the use
In the authors opinion neither Thomas splints nor
ma, ather, I see should be employed.

A number of case h tones are reported to illustate the treatment described 1 very good indication of the interposition of soft its use is a peculiar leastic recoil when traction is released. For this condition Russell recommends transver e section of the interposed tissues release of the fragments and further treatment such as that given for simple fracture. The Robert S Resear M D.

Schauffler R M Some Complicat on Follow ing Internal Fixation in Fractures of the Femur S & Cln \ 1m 9 3 1 1631

The author reports a case of fracture of the femur complicated by paralysi of the external pophiteal nerve due to pressure of the cast over the head of the fibula. The fracture was united with a varus angulation of about 140 degrees and was corrected by wedee osketotomy.

Another fracture which had been fixed by a metal band was still ununited after a year. Several se questra were removed in an endeavor to stop the persistent discharge.

Mention is made all o of three cases in which a simple fricture was converted by operation into a compound fracture this resulting in delayed union or permanent disability far worse than would have been caused by the original malposition

Surgeons who are masters of external fixation seldom find internal fixation necessary in simple f ctures of the femur. The only cases requiring open operation are those with irregular bone ends h ch cannot be maintained in apposition and those

th interposition of muscle
William A Clark M D

Radice L The Influence of the Peripheral Nerves on the Heal ng of Fractures (D ll fl e za d 1 p if 1 ll a d m nto d ll frattur) A tid ch 923 84

The influence of the nervous system on the regeneration of tissues in general and of the bones in particular has been studed by various in estigators but thus far the observations have been very contact addition; In a review of the literature and particularly of reports made during the war the author

noted that a large number of fractures complicate I by peripleral or central nerve le ions benefit completels. This observation refutes the claim that there is a defitte alteration in the reginerative power of both on preproducts I among the provides the control of the provides of the

Travers has reported a cale of fracture of the vertebra with ; ray legia an i fr cture of the leg an ! arm The fracture of the arm heal I in the n small time whereas that I the leg en led in pseudarthro I hilly s reported a similar case that of a tatient who hed five weeks after the injury lie noticed that by the end of the fifth week the rearative changes in the bone were those of the Bush releas to the case of a ac v ar of I man s ith t araple in I the I wer extremities wh in fi e weeks of the elecomplete lealing of a fracture of the leg On the other han! Lenau! an! Tus n reported a case of paraplegia in which union of a fracture failed t occur Baum reporte La series ! eleven cases of fr cture in tabet s Two subtrochanteric ir ctures united with hypertrop by of the callus. In three cases peripateuts and my mitis ossificans to el pet. In the other in smal healing occurre 1.

Simon has reported twenty for cales of fractures occurring in tabetics th this number to nev two united r rmatts. Officer in 1567 and Kaimjum in 1848 reported that resects n of the nery trunk to the extrem ties is I not interf re with normal bony union. The work of Muscat Bo and D mass lli on y ung rattits showed that bone uni n occurring in the r urotom zet hmt pr nte! allus smaller and less cartilaginous than thit found in all its with ut nerve injury Covet and Bonn to rrobolimb of an animal was fract red I ng after the neure toms callus formation did not oc ur t all From ext naive experiments Meru i a root e n cluded that dege or tile chang a ar I troth turbances occur if the injury to the bon is infli ted at a later date following nerv resects n but it til both the nerve and hose ar injured t the sam time the reconstrative than es will be small 1 tore Denti stated that valiatio a from the norm ! in callus formation are due to di turi anc i the sascular system of the local p rts at I that this far as the system is under ner e control it may be stated that injures of the nerve suith of a lin b

In 1900 Tatter reported anoth a series of c per increasing) our healthy rabbut In n case with the bear was fractured at the time of the next at 17 the bear was fractured at the time of the next at 17 or three months later was there are it starth nec of union and callius formation. Min ruin corrobotated these findings on the other half a number of experimenters including Activities must stremout by maintain that ner exections foollowed by who channel callius formation are experiented by the channel callius formation and the experiment of the callius. The author cut the brachail pleus; in of the callius. The author cut the brachail pleus in about the median ner e in fourteen and the

will in breetly influence the reg nerative ching a

tail i herve in fiften. Ten days after the neuro omy he factured the hones on both the neuromize I and the non-neurod size From the results he concluded. But the neuroparalytic herve rhage the I was of southern and the stroph of days ed not in any way mind. But strant on or fracture union and that when callus format on regretation of home occur either stimulately or experiment By other factors entirely in tependent of neuro-lived must be soon less than the production of the control of the control

JAMES V RICCE M D

Dick on F D and DI cloy R L. Injuries to Pe ripheral Nerves A sociated with Fractures S g Cl. V Am 2023 is 1720

CASE 1 Th patient was a 5 ver-ed boys it he supercondular fracture of the right hunerus. The arm was 1 at up in acute flexion. Flex on either fingers and ivant to devel ped in a few days. Attempts at extrass in caused severe pain. Faramation 3 car f abough in the cubital space the chlow held at a in that gib only 13 diversed most in a large callies also mit proven eree of the internal co-dile callies also mit proven eree of the internal co-dile callies also mit proven eree of the internal co-dile callies also mit proven eree of the internal co-dile callies also mit proven eree of the internal co-dile callies also mit proven eree of the internal co-dile free some of a n at in 0 or the entire distribution f the mid a in a billian recreas.

The n tur of the injury the contracte I fexors and the sensory disturbance clearly and cated an moury to the median nerve of an irritat e type r ther th n division and ross bly some in oly ment of the ulnur s r e At operation the median ners w a found hooked over a bone fragment embed ed in ac r t su har l an i decrease tin size for abor t Il e nerve was rete sed and fran glanted in 02 g w c nth bi ps muscle The ulnar nerve seemed n rm 1 Th fingers th mt and wrist weref to bh t ight ned and a palmar sil nt applied for two menth Impro eme t in sensation begin a lew i a afte the operat nend under ma sage and e rei e pr et ally n rm I m tion and sensition mally returned In the infex pager reco ert was si wer than the others probably because of gr te mur to the thers supplying it

The pre-mers as 1939 are role the distribution of the first transcription o

res At le ation n March 3 the musculospiral n. w. e posed through the spece bet een the train 1 s and the bachioradials. It was full imbed I in scar ti sue from the point of its son payer dabout of m hard and dm nished

in size above the scar it gave no response to electrical simulation. The sheath of the nerve was plantal and dissected free the nerve then burned in the banchains anticus muscle and a cock up splant applied. In ten days power began to return in the extensors. Five weeks after the operation there as 15 per cent power in the finger exten ors and 25 per cent power in the wrist.

Case 7 This case was that of a woman aged 70 years A Colles fracture of the right wrist which was sustained November 10 was treated by the applica tion of a straight splint for eight weeks without mobilization Examination on January 27 showed marked limitation of motion stiffness of the fine r and severe pain on passive motion I ain was present constantly day and night especially in the mid'il and ring fin ers where there was hyperæsthe ia After about three months of conservative tre tment without improvement neurolysis of the ulnar and median nerves was done at the wrist. The e nerv were found compressed by adhesions. Intense pain persisted for three day after the operation about three months there vas only an occasion l shooting pain in the middle finger but motion a practically normal in the wrist and wa gool in the ingers except for slight stiffnes of the middle fing r The period of long immobilization wa respons ble for the condition as it favored the accumulation of bloo I and exudate

Case 4 The patient was a oman of 4 year Fracture of both bones of the leg when she was 6 years old was followed by varus defo mity and veak ness in the foot A brace was worn for twelve years and then discarded The deformity gradually in treased The patient walked with a limp and with the foot in extreme equinovarus position Examina tion showed muscular atrophy and total pa lysis of all the peroneal muscles but we v little sensory d sturbance. At operation the a terior tib al ner e was exposed throu h an inc sion over the outer side of the tibial crest It was found embedded in callus for about 2 in It was di sected out and buried in the anterior tibial muscle Neurolysi of the poste nor tibial was done through a poster or inc sion and the nerve buried in the poteriot bial muscle There

as some return of power in the toe flex r n a few days but a good result is not expected becau e of the degree of the muscular atrophy. The deformity in this case could have been prevented as the symp toms of nerve lesson vere present eight days after the fracture.

In three of these four case the fracture varieties on the Nerve lessons are more p to follow fractures near joints because in the joint egion the nerve less nearer the bone and because the completisticular in that region does not perm le pans on in the Presence of a large harmorrhagic exudat

In cases of nerve lesions the nerv should be explored within two months. If neur lyst is then found unnecessary no harm has been done. Since the conomic importance of pe ipheral nerve injuries after fractures is very great more attention should be paid to the function of the extremity beyond the fracture 1 ith a view to preventing paralysis and deformities

WILLIAM A CLARK M D

Cook R J The Results of Treatment Following Compound Fractures Occurring in Civil Life J Bo e & Jo 1St g 1924 v 95

In cases of compound fractures the surgeon may choose one of the following method of treatment (1) cleansing of the wound with antiseptices and the pipication of antiseptic dressins (2) drainage (3) d bridement followed by Carrel Dakin treatment (3) mendials suture after débridement or (5) de laved primary suture. The methods brought out let une control of the con

ill fe treatment is rarely delayed more than three or lour hours. The army surgeon may therefore well hes tate to do a debridement and primary closure while the civilian surgeon need not

This article is based on a study of 115 cases of compound fracture of the long bones treated at the New Haven Hospital in the period from 1013 to 9.3 Sixty eight vice treated primarily by the methol of aspita occlusion mine by drainage eight by the Carriel Dakin technique twenty six by de bridement and closure and five by amputation

In the cases of aseptic occlusion the healing of compound fractures caused by direct violence usu ally requi ed a little longer time. Cases in which redu tion had been effected by wiring or plating u ually required six times as long for healing as those n shich no foreign material was introduced but if the plating was done secondarily the average time necessary for recovery vas only twice the normal In this group the average time in which the wound healed in uncomplicated cases was sixty two days In nine cases treated by drainage the average time was one hund ed and seventeen days Four of the cases treated by the Carrel Dakin method required an a erage of one hundred and thirty days for heal In two others the fracture was unhealed when the patient was d scharged after an average of sixty five days

In four of the cases treated by debudenens and mmed ate suture bore 1 agments were removed. Two of these healed in sixteen and twenty days expectively. In one drainage was necessary, subsequently and healing required one hundred and forction. In 1970, the patient of the debug days here are so that the debug days in forction the days in five drainage was neces ary thrust five days. In five drainage was neces ary the subsequence and the days in five drainage was neces ary the debug days.

When it is possible to reduce the fracture at the primary treatment the wound will heal more quickl. Osteonedous most common in cases treated by september is most common in cases treated by september of the wound and paken treatment we de opening the wound and Dakin treatment Gas bacillus infection makes amputation necessary

The a crist is the require if r halog is two nt two days after cought to first ment subject days after a pic section in one him he land seven ten hays when friming is not a crist and on his dream it thinks have been carrill Dakin treeting at second in

The cases are report I in detail

WILLIAM V (14 K VI)

I arison W Fracti re from an Operati Stard
point / 1921 3 68

Recent fractures 1 will be a refully selected for 1 that et in nit a a per ex pin di nit et war t with that the nightly can be efficiently fracted by no perate measures. Market lancement of regional been a new annual tracted lancement of regional been and the nit open transform active many self-end of a case to decide it many sit is not extremely an annual tracted lancement of the nit of the n

The chiff of the rik in the ungual treatment of frectures are sepons at it us on but in the might for seal it flowes are and it. The rik of sepons us in resolve fully to hangue and the perminal luming of frein lives in the trues of normal statisfied to persite for young a first statisfied.

interferen with the the 1 upt

Interiered with iter it is a july a both present it as less one veck all it he jujur in oil it permit the less one veck all it he jujur in oil it permit the iter to go by the attent jould in the resistant in the tree open it attent is ould be resistant until not of the identity as he will be less than he ille planed in a land it. It is permit the form of the resistant he like planed in a land it. It is useful to directly seguire street as of the forest in for the facture entire juit and a curate liver in the facture entire juit and a curate liver in the facture entire juit and a curate liver in the most liver.

Fire ar van u meth is of fix i m Metal Ji tes have ben ten i mijke of but r ge erall) raarle buth li fixor I men attributes f flure to faultva (y) defet e m h n ulte i upe toorsel eit no fibe cases and unpriper i epertit e tre ere er. The south this imple of pittes u tex by ght e. efe e is mijle fer.

fur swithe c llent re ults

First in ty ban 1 : in licat d in the n j rity f
long bl q e n i jiral frictures I a son rec n
men) the I whari Marin lan 1 s the lest

Using 15 mo t u ful in such cases a fractures f the 1 atell the lectation the to doles of the ha merus and other similar detached fragne ts

in the employment of intramedull ry bone person and the person of the person is a let all a person in a let a let a person in a let a let

Indi at in sfor surg, altreatment of old fracture, re-malunen and non-un. Malinnon sides are rally to 5 many; incomplete reduction in 18 m a spiniturg, insulf creat cates in or 1 transitier to my all of the 2 piport from a recently un tel fracture in some subjected to weath bearing and insucular string. The three chief types I finalium in are suppliation to taken and overlatinging. The first two may be treated by outent my The third presents 1: cult problems in treatment.

Unutited frictures shilld not be subjected to open time treatm in until sufficient time has been allowed friction on the me has been allowed friction on the notion stated on the toentgenogram. Bone grafting is the method of choice. The two types of grafts useface the justice of large of the cortical graft which the justice in I large and the cortical graft which

may be 1 ing inlay or lateral

c use serv us is all ty a in the long bone of the upper extremit at 1 in o e lower limb when the other i she n amp unstel the step-cut operation is the meth i of check the control of the

RT 1985 Rrin MD

ORTHOPEDICS IN GENERAL

J nes Sir R The Problem of the Capple Pa

To whe the problem of the engilent is necessary to contentrate and direct there enges of the various agencies whose sympaths and interest have been and seed in his fat

The functs of the art us agen es in Englant f r the r l fof entipl s are tab lated in full These r ne ware l ked up into an reanized f lerat on f r chill will re unler the heaf of the Central n il finfant and [chill Welfren]

The Bur au of F1 at n and the Fuertoo from the control to the control take to talk hed hol frithe ducation of the physical lifect. In the a thore opin n the quest n of the jention nitreatment of the electromites of hilten; such a at politic and so do h

soc t f with fice nt tz n h p that the burden ts solute n e t l should be borne l rg ly by the htat d florts should be directed mainly to

I tentie chimes

The cue responsit for empressina bedis id d

nto for pring (1) tuberculos (2) rects

(3) Iral is nd (4) orgen tall diects With

registrott free not on of tuberculos th author

title the title ewest of Stat protection in

ung the distribution fig. r milk and in assisting

ces of point not tab culled in sa atoria is ident. With go it it it it im not of chronialim nits uch a t bc c lo hinckets he stresses the mporta (fopen if h spit is n the coun

in agenum at a j tel a short hie has the fill mig o gammati i () nor lec-ordin ting bod h h ork with the Minit v i He lish and

the Roand of Education (2) a local committee for the care of cripples in every di trict (a) hospital schools such as the Shropshire Orthopædic Hospital with open air wards each school being run under its local committee with its own teaching staff and handscraft workshops and (4) out patient clinics IORY W POWERS M D orafter care centers

De Gaetano L Three Years of Reconstruct ve and Orthoped c Surgery Congenital Deformi ties (Un trienn o di chirurgia t p d ca e ripara trice—def rinit congenite) Rf n d 923 1 1 13

Ho elip The author has operated upon t elve cases of harel p in children between 14 months and 12 years of age. In two cases the condition vas bilateral in several it was associated with cleft palate and in one it was associated with cleft uvula The operative technique employed was that of Murault. In one case of harelin with extensive bony deformity-a prominent superior maxilla and protruding inci ors-reconstruction was effected by resecting the bony structure and resetting it in proper alignment in a one stage operation functional and co metic results seen a month after operation were very satisfactory

In the author's opinion harelin should be operate i

upon soon after the first year of life

Spina bifida De Gaetano has operated upon five case of spina bifida He agrees with von Reckling hausen and Muscatello that this condition is due mainly to hyperactivity of the spinal cord and arrest of the development of the vertebræ In two of his cases the defect was in the dorsal region in two in the lumbar region and in one in the lumbo sacral region. Only the last had definite character. istics of a meningocele. The two in which the defect was in the lumbar region had the characteristics of a pedunculated myelocystocele that is the cystic tumor are e from the dilated portion of the epen d) mal canal and there was stenosis of the com mun cating portion In the two cases in which the defect occurred in the dorsal region it as very large with a broad base necessitating an extensi e plastic procedure to close the cavity

There was one death in these ti e cases that of an infant to months old with a large spina bifida in the dorsal region. This death was attributed to opera live shock. Among the cured patients as an infant 3) ears of age which was born ith small cystic tumor mass in the dorsal region the siz of a hazel nut which gradually enlarged to the size of an orange The enlargement and the accumulation of fluid produced pressure symptoms and jeopardized life until the tumor mass spontaneously ruptured Drainage caused temporary ces ation of the symptoms but the clo ure of this small aperture and the subsequent accumulation of fluid was followed by recurrence An operation was then perfo med Recovery was uneventful Subsequent examinat on has shown the patie t to be normally active and of n rmalmentality

The author urges surgical intervention in these cases even though the patient may be a poor surgical ri k. The only contra indications are the coexistence of a severe hydrocephalus, paralysis of the extremities or cacheria

Hydro encephalocele Analogous to the distention of the ependymal canal are distention and enlarge ment of the cerebral ventricles. This congenital malformation develops prior to the differentiation of the mesenchymal elements covering the brain substance In other word it is an early malforma tion of intra uterine life. The views of several in vestigators are given in support of this theory A case of this type which was operated upon was that of a 2 year old child with a suboccinital cystic tumor mass the size of a lemon with its longest diameter running from left to right, a marked strabismus and a beginning optic atrophy. The patient was unable to stand unsupported and had the facial expression of idiocy. The operation consi ted in expo ing the sac and emptying the fluid contents Death occurred on the third day after the operation There is little to be hoped for from surgical measures in this type of case

Large stal torticallis. The three cases of congenital torticollis in the series were those of patients 14 16 and 22 years of age. At operation an incision resembling the letter Z was made in the sternocleido mastoid muscle and the muscle then elongated to the desired length The perimuscular fibrous structures concerned in the support of the head were also in cised In the cases of persons vell advanced in years and those with well marked deformity it is prefer able to resect the entire muscle When the lesion does not yield to massage etc the author prefers a subcutaneous tenotomy for the mild cases open tenotomy for the moderately severe types and teno plasty (the Bayer technique) in the very severe cases and those of older patients. In all cases observed the development of the face had been at rested on the side corresponding to the muscular deformity This observation favors the theory as cribing the deformity to congenital causes and refutes the theory ascribing it to obstetrical injuries Stromeyer believed that it was due to a harmatoma of the muscle de loping during delivery and Schloesmann attributed the arrest of growth on the affected side to ischæmia caused by interference with the blood supply by excessive flexion

Congen tal cysts a id fistulæ of the neck Five cases of congenital cysts and six of fistulæ of the neck were operated upon Four of the cysts were of median thyroid origin and one was of lateral origin On microscopic examination the inner surface of the cyst walls as found to be lined with cylindrical ep thelium Such cysts may be considered deriva tives of the thyroglossal diverticulum. All five were in males between 13 months and 18 years of age

Of the fistulæ two were of median thyrohyoid two of median thyroid and two of lateral thy roid origin All were secondary to congenital cysts and discharged a stringy fluid a few showed pus

Hi tological examination demon trated that five originated from the thyroglossal diverticulum and that one was of branchial origin. Three occurred in males and three in females better 6 and 26 years of age. In the treatment its estential to remember that some of the fittle contained microscopic.

tubular structures inv ding the surrounding tissue which left in sit, will reproduce the lesson

Co spenial luxation of the hip. In four cases of

Congenital suxation of the hip full four cases of congenital suxation of the hip reduction we effected successfully without operation. Satisfactory results can be obtained by no operative metho is provided they are applied before the according toward life.

I hysical examination with the infant in the erect position re eals a love ing of the anterosuperior that spine below the inguinal fild levation of the great trochant rabo e the Poser Velator line and a much more lateral prominence of the gre t tr chanter. In the recumbent position, the extremity of the affected side shows slight shortening With the leg in moderate flexion and abduct on palpati n of the supra trochanteric area with the in lex finger and thumb reveals the he d of the femur in the liac lossa mucl further anterior r i steri r than is normal These signs are not easily demonstrable in the infant excert i the more marke I cases. In doubtful case other deform ties such a coxa ara paralysis of the al luctors and coxa plan mu t be considere 1 It such cases the I ray is of great a d In the treatment the author prefers manipulation according to the m tho! advocate! I'v Lorenz an! Laci III experience h s shown that immobiliza to n f r from six to t ely months is essential for the re establishment of n rmal con I tions nd the revention frecurrence INS! PICCE MD

Calland W 1 A Simple and Invisible Dr p F of

The brace described consists of a spring insteed it a pocket in the lague of the shoe. The pocket hich cit be in leb any shoemaker extends from the upper margin. The lague to the mid fle of the toe cap. The poster or layer of the pocket it lines with soft left.

The spring is a spiral tell spring such a is used in phonographs and ala milicks. Its size and

strength depend on the size of the foot to be supported \ small child requires only a light spin in wide and from 1/36 to 1/48 in thick while large child may require one 1 in wide and 1/16 in



Fe : Co trut n f th to g pock t 1 steel



Fg j i t t1 thr -orth ped c how modufid fo th d p-foot brace h g th p g h h s rt d th t gu pock t

This plint is of alue in cases of drop foot or equinus, it hout strong predominance of the plantar flexor group of muscle. Spastic equinus is a contral dicat on to its use. If But is School M.D.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD AND TRANSFUSION

Friedlagnder R. The Blood Sedimentation Test as an Aid in Diagnosis in Surgical Infections Im J Obst Griec 1021 vi 1 5

Although the blood sedimentation test yield no oractical results for the diagnosis of pregnancy until a general biological reaction has taken place ie after the fourth month its negative finding are of material and in differentiating pregnancy from simple tumors after the fourth month. It is of some aid also in the diagno is of unruptured ectoric pregnancy Ruptured ectopic pregnancy having about the same sedimentation time as pelvic inflam matory conditions must be diagnosed by exclusion

The diagnosis of pelvic inflammatory con litions

may be confirmed by the test

The reaction is especially valuable in gynecology to determine whether a patient with an inflam matory adnexal disease but with a normal temi e t re and blood count should be subjected to oper tion A sedimentation time under thirty minutes means active infection and a sedimentation to e under one hour latent infection under such ir cunistances operation is contra indicated \ sedi mentation time over to o hours e cludes all possi bility of a latent or active infection theref re the patient may be subjected to operation sately

No dilatation curettage or other surg al inter ference should be undertaken before a se i mentat on test is made to exclude latent infection of the ge at al

The value of the test is prove I by its at pli tion to medical conditions since all such cases infectious process sho v a decided decrea e in the se i mentation time EDWARD I COR L M D

LYMPH VESSELS AND GLANDS

Eleesser L Obstruction to the I ymph Ch nn 1 by Scar J 1 1/1 1 931

Craits of skin and the und rlvi g soft pa is whether transpl nted by f e grafting or Italian Plastic operations in several tage re ofte the site of an annoying ordema. Thy a e il nd of ti sue completely sur oun led by c an i th adema may persist for a long t m F en f it disappears it may recu

Eloesser has ob erved that du ng th j t nof an anæsthetic f r local ne thes the rt ue offers an almost imperme ble barr r t i flu i n To determine whether it act barre al to th regenerat on and gro thof lymph es el h

out a series of experiment on rablist lucis ons vere made through the d rsum of the

ears of the experiment la mil but u ually n t

through the cartilage. After the inci ion had healed a sust ension of barium sulphate or India ink wa injected under the skip di tal to the scar

It was difficult to inject the barium sulphate into the lymph ye el as the su pensi n gathered about ite of injection. The scar offered complete

obst uct on to the p ssace of the barrum When the India ink was injected slowly a round black spot first appeared beneath the skin and then suddenly from the spot the ink darted into a lymph yes el and ran rapidly into the smaller b anches near the site of injection. The continued until it reached the scar where it stopped. The ink run fairly freely until it reached the unscarified portion of the ear when it ran along the uninter

rupted lymph spaces to the di tal portion of the The conclusion drawn from these experiments is that scar causes a relate e stenosis of the lymph han els ob tructing the passage of gros r par

ticl s such as tho e of barium sulphate but not the finer particle such as those of India ink It wa noticed all o that although the lymph

sel of the ear were partially obstructed the r vere not æ lematous

In these specimens the ink traces were clearly out line I along ell defined lymphatic yessels

The ears of the animal vere then inoculated with trentococci from a case of empyema. A numb r of the animals died after the inoculation on account of the reulence of the strain. In those v hich survived th infe tion the attack gradually sub ided at the nd of a eek or ten days leaving a very slight tdema and thickening of the skin of the dorsum of the ear Inject on of older cultures of streptococci aused much milder react ons and in some cases almost none

The lymph channels of these ears could not be injected ith Ind a ink as the channels were com nletely blocked The blocking of the channels ppeared in both the mildly infected and the very

e ely infected animals

In conclus on Cloes er says that a healed scar obst ucts the lymphatics partially but not com I letely Some but not perfect regeneration of the lymphatics occurs across the scar Infection with certain strains of streptococc completely blocks the 1 mphatics DAY M LLEY M D

Lemon W S Tube culo is as an Etiological Factor in Hodgkin D sease A Historical Review im J Il Sc 1924 clt 178

The author gives hi torical review of the subject together with conclusions dra n from a series of 101 cases of Hodgk n s disease which he studie I at the Mayo Cl nic

Hodgkin in his original description of the dieast and that he believed it to be a primary affection of the lymph glands rather than the result of an in il minatory process. Wids. Trousseau and Wunderich differentiated it from leukemm syphilis lymphosarcoms and tuberculosis. Fagge Weigert and Delnfield described cases of primary glandular tuberculosis that could not be different ted clinically from Hodgkins of the see Stern lerg came to the conclusion that the disease is a pecul art type of tuberculosis. Y humber of his contemporars in secondary rather.

Puzzia has found that in ny patient have tuber culous glands but do not ha e tuberculoss. Ther fore the finding of tuberculo is in a case of Hodgkun s disease would not prove the former to be an etiological factor. Sa for following the v o k of Sternberg concluded that the majority of cases are due to have made the patholorical picture of Hodgkun s da sae definite have given evidence of the distinctiveness of the two diseases. In 1014 Wuttke concluded that the diseases also to a modified strain of tuberculous b cilli. Logue in 1021 stat? that the etiology is uncertain but that the most probable in the strain of tuberculous b cilli.

The author di cus es the churcal suml ray of the adenopathy in tuberculous, and Hodgeln es disease in his series the differential diagnoss. The sum truphose succoma prove of the most diffusion to the control of Hodgeln es disease to tuberculous adenoments to the control of Hodgeln es disease to tuberculous adenoments to pass of the fatter (a) an actue tuberculous adenoments in which the glands remain di crete (a) a form in which the flands are light part and disease in which the glands are light part and disease the part and dis

embles the leukæmias

The author 1 cus es h observations in the caus of Hodekin's disease with medi at al involveme i Only two of the twenty six patients ga e a family h story of tub reulosis. The ro ntgen ray examina tion revealed pulmonary tuberculosi in oils one case and the no ling could not be a nfirmed of m cally. In o by eight of the author's series of rot cases was there e idence of tuberculosi this was revealed by roentgen ray examinations of the chest Moreo er roentgen ray examinations of the ch t revealed healed or open tuberculosis in seventeen of tor unselected routing cases. Lemon concludes that th re are many 5 milar ties between tub reul us ad enonathy an i Hodgkin's di case but th' t tub reu losis doc not produce Hodgkin's disease although the two may be associated W W CRA E MD

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Payr E Errors n Aseptic Technique Which Are Frequently Overlooked (Ueb r 1g e 1s, beachtete Fehler n de A epsi) Z ! albl f Ch 19 3 | 160

In spite of our highly developed aseptic technique it is still possible that the surgeons hands or the field of operation may not be sterile. The author

reviews these possibilities briefly

Bacteriological examinations have demonstrated that the others te healthy skin in the neighborhood of a punient lesson may be heavily infected for andus of about 30 cm. It is therefore advisable to use caution in patienting this skin. A long dressing forceps typed with cotton saturated in ascine may be substituted for the fingers to a considerable x tent.

After the patient has been bathed shaved and washed with alcohol and ether the even n₀ before the operation an aseptic protects a bundage should be affired an lon the day of operation no water should be and 1 to the operative field

Infection may be spread by tape measures om passes protractors rulers and instrument f r auscultation and percussion Metallic instru n nt are therefore preferable to those made of a ood During clinical instruction in which model glass slides loops sputum cups urine containers etc are used the danger is particularly great as the e objects are used occasionally in a septic case splints that have been saturated fr m dress ngs nd the straps of the operating table may be sources of severe infection Gls on hig plaster bandages braces hinges and en r ntg n rav plates may harbor infect on and dank usly con taminate the hand. In the operating oom the Esmarch bandages Bies hæmo tati bandag and the anasthetizing apparatus may b carriers of infection

In the Payr clane the umbulcus s hed out with nodobenzune and irr gatel with mast of in the skin is produced with teral zed bolto albo. In preations on the intestinal tritial the zell blud fer after the so-cilled fue pithe eno open in a purel the instruments r chinged fred in res und the state emit rad hang d

Holm n F Protein S nsiti ation in I o Skin Grafting I th Latte of Practical Value? S 1 Gy ←Ob! 9 4 ∞

The author's observations are supported by Schoene's views Holman remo lightist micro scopic study on the sixth the teenth twenty second

and tharty second days after their application. By the sixth day the grit sho vice devidence of a begin ming extension of epithelium from the edge. By the twelfth day the epithelium had advanced over the granulation tissue in a very thin layer. This layer their gradually thickened until it had assumed the character of normal epithelium. The specimen removed on the thirty second day showed only the slightest estige of very deficiate stained epithelium removed from two of the rounds.

The full cycle of an isograft ranges from approx imately twenty four to thirty six days therefore a eport of a successful i ograft based on an observation of only ten to twenty days is obviously not of the

slightest value

Of pa ticular interest in the author's experiments is the evidence presented by a specif process of di integration involving a specific antibody for each set of grafts. Holinan's experience prompts him to emphasize the possibility of sensitizing the patient to emphasize the possibility of sensitizing the patient to no possibility of sensitizing the patient to the foreign protein of the graft. Protein sensitization or possibility of sensitizing the patient to no possibility of sensitizing the foreign transplant. Holinam questions the void of attempting isografting when there is skin available on an autograft. Ent. C Romrisers M.D.

ANÆSTHESIA

Ros F I Some General Fflects of Local Anæs thetics Administer d as in Tonsillectomy 1 0 l Rk l ELay g l 923 x 1229 The authors work vas done to determine the

cruse of systemic effects following tonsillectomy per formed under local anæsthesia. In an mal experi ments it as found that the arterial pressure increas ed 223 per cent n l the intracranial venous pressure increased 467 per cent after cocaine and adrenalin we e injected as in the routine clinical tonsillecto After cocas e and adrenalin were swabbed on the throat the arterial pressure increased 137 per cent and the intracran al venous pressure 193 per Such increases are due to the synergistic action of cocaine and adrenalin circulatory changes are negl gible if either is omitted Systemic effects are to be attributed to the enormous increase in intracranial pressure which causes first a circulatory stas s then asphy in of the central nervous system with increased respiration and finally a smothering

In clinical cases the max mum ri e in the blood p essure average 1342 per cent and was greatest in those showing the most marked reaction. There fore to increa e the safety of local anesthesia ne sures should be directed toward lowering the tressure tather than to and I er un ft foral e should be el minate I complet by if a muble or if it must be used shull be applied a medime after the injection of the 'ten I nandr's scaine

.. RMANTA

Coaf II : Th R I ti n hin B twe n the Clemical Structure and the Local Ament) etle iffert of A Alkeliz d Laucin I lat re of I Aminobenzole Aeld (t be le lie sebu een a ub hm whith a titute of lok i naesther et mis ni lok i nanther et mier Il bu e ber \ 1 31 tten Leu mir fer n im.r lenters 1 1 4 f f fer Pak w Parmit | ot 1 15

Since the chemical tructure if waire his led fait is estall hel we have lamed bow to b tain new anestier cents ne charmac geath valu ble groups It fil an fr perties are essential pecifi affinity for the sense is nerves while to in in if rent full than iness rese tance to heat and a h tact r which will permit the use of the frue with adjen in The auth r I was we It to the varue ore got tangethete a I those still un f rin estigati n

Its esterifenti nol gam be a a 1 ith th Valkabret fr te geri alkamine ius el ulstances ar of tain I which hit rebeme the fr m n vocars in the le gth ming of the carbon chain an lare cheract mediclarm col mouth to ir for ng angethes a cat i !!

These subst c wer tested as to thur sale for uperfice I anaeth i of the circa infait n angeth and fife sort of me of the for and h

fire tuen angesthesia induced by a tra was a pot to r in the arm. The individual and comparating values in c ntra t to cocame and h oc ir ater cor efint blef rm

I r tractical tamoses o h the \ lethal leuer le ter f the pamer benn e cil tem es con Heration I'h chem cally pure santance does I trau irnt t n and acts on the cornea just as rate il an l erol as cucam a leight times as r zerfully as no ocas e The stat a sten zal e It is t tee a to efful as r ocal e in L ue e anarthesia of the mic as membranea le ricten anz+th 342 777 FZ

Palm r C B: The liffect of I atore on Relias tion under inzethesia Ca or 1274 25

The author wrees in to attent in to the posture of the pat ent u I ranasthes a I Lows of prope se e should be y aced use er the head or back the legs and thigh about he i sol and the thous should be rased Relation fith face of the femur trunk and neck o nint steat the take t oraf et la rel as e the t max on the abiom al m x 11

Francist of francoing state of dates. rea hed that if d tient in isr if to th patie to posture the indiction and maintena of arms then will be I co tated gr ater relacation will be of taired | It fur la astles will be sut cient a tithe cor tien (the t tent after the operation will be ers mi h better

f to RMATIFMD

PHYSICO-CHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Rolleston Sir H Reid Sir A knox R and Ray and Radium Protection Com mittee Revised Report B # J R d 1 9 4 It to

The known effects of overexposure to the \ ray and radium on the operator to be guar led again t are (1) visible injurie to the superficial structure which may result in permanent damage and (2) derangement of internal organs and changes in the blood which are especially dangerous becau

their insidious onset

As general precautions the authors re omm n l hmitation of the vorking hours to not more tha seven a day outdoor life on Sun 133 nd two half days each neek and an annual hold lay of one month

or two separate fortnights

Protective measures are lescribed for the arious types of installation In all ca es the \ ra tube should be enclo ed as completely as po sille by protective material equivalent to fr m 2 to 3 mm of lead In doing the roscopy the operator shull further protect himself with lead rubber gl ves an i an apron and with goggles In radiography the operator should stand I chin I a leaded scre n Freat ment rooms should have their wall (and when neces ary the floor and ceiling) line 1 ath 1 a 1 from t to 3 mm thick All room should be ell vents lated well lighted and above ground le el With regard to the pr vent on of injury from

electricity the authors state that oncrete floor should be covered with wol cork Incleum or rubber Overhead conductor hould be tubes o rods and at least oft abo e the flor All metal parts should be earthed and all mair and upply switches should be accessible and distinctly marked Rad um should be han iled o ly 1th f reeps and

carried from pla e to place a long handled botes aned tith I cm of lead. Whe not n use radium should be stored in boxes with walls of a thick ess equivalent to not less than 8 cm flal

CH LSH H 4C & MD

Sittenfield M J The E aluation of \ Ray and Rad um The apy n Cancer and It Future Outlook Rd lgy 9 4

The author revie s the va ious type of m lig nancy and endeavors to place the value of radiat in therapy in each type. In mal gnant affections of the lymphatics the ray and radium are the most valuable therapeutic agents at hand in fact so valuable that in lymphos reoma a d Ho igkin s dis ease response to r liation is r garded a of diagnos tic value Surgery is unsatisfa to v and may even d ssemmate the les on

In cartinoma of the uterine cervix these agent are of equal value with surgery in the early cases The best results are obtained by the combined use of radiation and surgery. In the monerable cases al though the pure ntage of cure is small rad ation is of great value a at prolong life in comparative

In 138 a e of carcinom of the breast which were t eated by the author a cure lasting for from one to four years wa obtained in 83 per cent of those in h h there was no recurrence or any clinical many t station of the di ease at the time of the prophylac tic radiation. When recurrences or metastasi were ore nt the re ults were un atisfactory a cure being I taine I in f wer than 20 per cent

The result in superficial malifinancies are good lut in mon rable carcinomata of the cavities of the hod radi tion has given only neil gible results

Our kn v ledge of the therapeutic value of wave l neths a still very taulty. The different wave lengths seem to ba e a differential action foun I that the skin is six times an I tumor tissue to and eight tenth times more assiste to the log ave than to the short waves

t other possible line of re earth 1 suggested by the fact that to sues may be rendered s nsitive to light by the injection of certain fluorescent substances such as Bengal red eo me chlorophyl and hamatoporphyrin Sunlight i responsil le for an e tir bi chemical change in the injected ubstance whi h renders this other ise harml ss agent toxic and kills the animal afte p oducing a definite train of symptoms

Technical ad unces and physics have advanced t evend ou knowledge of the biological anatomical and histological bases for raliation. Some of the t rot lems still to be olved are (1) the lethal dose for e ery type of malignant grov th (2) the relative radio ensibility of the different tissues (3) the reason v hy cancer t sue is more radiosensitive than the normal tissue from which it sprang (4) the re ction of a given tis ue to a definite a ave length (5) the relatio ship of lymph no les to cancer and (b) the methods of meeting the seeming decrease in th operabil ty of cancer

CIARLE H HEAC R MD

RADIUM

Stenstrom W Methods of Imp oving the Lx ternal Application of R dium fo Deep The 1m J R 1g 1 9 4 176

In certain cases the radium pack has advantages for external radiation in deep therapi namely ease of application and constancy of irradiation Ser ous disadvantages in the old fash oned pack are the dificulty of screening undesirable rive and the difficulty in of taining the proper distribution of the gamma rays within the body. Moreover with a tersonable amount of radium, a great distance and a long time are necessary to obtain a depth d se com tarable to the derth dose from filtered roentgen tays produced by 200 ky

The author describes a rotating container attache 1 to a stand which he devise I to utilize the advantages and o ere me the disadvantages mentioned With this applicator it has been po sible to obtain approx mately the same depth dose in 17 gm hrs as that obtained in 60 gm hrs with the old pack. The greatest a lyantage of the new pack over the old one is that the amount of radiation absorbed within a cylin ler directly under it is about o e half the total amount absorbed by the body while for the old pack this relation was I to

I acks of this construction can be of value only in he putals posse sing large quantities of radium is still too early definitely to determine their ultimate success in all cases, but the results so far are sery much better than those obtained with the old nack The ne mack cannot of course compete with

quantity of radium is needed to produce the same effect in the same time. Ho ever in than cases the occuliar distribution of the radiation makes the pack more suitable than the roentgen ray tube I or instance it may be employed to administer a heavy dose into the lov er jaw and the tongue from b neath the chin and to obta a a good d stribution of radiation in the lary ny It is of value in the treat ment of certain brea t tumors an l axillar metasta

ex as it saves the sensiti e surrounding tissue from

the roenteen ray tube in economy as an enormous

keloid and rapid healing

heavy radiation and it has proved effective also in the rad ation of the pro tate and vulva ADOLDS HARTENG M.D.

MISCELLANEOUS

Thomson J E M The Use of Physiotherapy i Certain Orthopedic Conditions with Particu far Reference to the Usefulness of the Actinic Ray J R d l 024

The use of the mercury quartz famb is relatively new in orthopedic surgery although other physic therapeut c measures have long been recognized To estimate the value of the actin c ray the quartz lamp was used in sixty of rio c ses. The conditions selected for raliat on were fractures eight cases arthritis neuritis bursitis twenty four cases on teomyelitis fve cases burns four c ses open wounds eight cases and miscellaneous confitions eleven creas

In the cases of fracture the actinic ray was u.ed about eight weeks after reduction and was com bine I with manipulative exercises and massige In the treatment of arthritis it was employed early except in the cases of spinal involvement. In the latter it was used as soon as the patient be ame ami ulatory All of the cases of osteomyelitis excert one were acute. In the cases of b rns all of which were third degree burns the ray combined with massage and passive motion cause I softening of the

The author concludes that the ray octs as a stimulant to the system in general relieves the pan during the acute symptoms by reducing the effu ion the region affected and hastens the ultimate cure

CHARLES II HE COCK MD

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACY FIGURES IN BR CLETS AT THE RIGHT OF A REFERENCE INDICATE THE PA . F THIS I LE ON WHICH AN ABSTRACT OF THE ARTICLE RE ERRED O MAY B. FOLAD

SURGERY OF THE HEAD AND NICK

Head

laget's disease in oil the skull review fith ht 1 e report of thee ca G W SWIFT N th t Med

9 4 XXIII 64

9.4 xiii 04
1 care of conge ital bence f the f t l bo e
sacrilada Pechat e p 9.4 x 7
Th t atment of h ad 1 ju ies Colo Hosp til C 7
T S Memane Vil Surgeon 924 h 2
Th teatment of fracture of the shull H I Brown 1

E A STRECKER Ann Sug 924 kc 98
Plate repai of depres d fr tu e of the l we o bt 1
nm R H GOLDTHVAITE J Am M As 924 l 11 6 8

At te ost omyelitis of the bones f the f e upp ation of the adjace t nus s P Ma ASSE 7 opp atom of the adjust in mass and at the life figure and the life

ery \ Bertaux B ll et m m Soc a t d Pa ci 1 63

The term tof nkyls fth temper m db! art cultion fbosoby CM Derect D
Webster and H McWilliams Det 1 Cm 94

The ue f hook e te ff g frthem bl t me to f th ja without t th f tr pl t ne nd i the to at of th on t d t we not the to at of the on t fth I Boy kylor ftle low pw th pl t wthill t ton fact emo me taft I r E (Cln Sect 6

1(?) dermod cyst of them dbl 1 T P TTS P Ry Soc Med Lod 924 xx S told tl 8

the a soci ted mo em nt f th 3 th e t rs cond ct g p ths p od t t a geme t A Dtang Am J Ophth 0 4 3 d₫ 495 M rs stgm s B t J Oplth a 4 1 63 Ocul rp l s A FE > B t M J 9 4 3 [495]

The rit n f v tat dutificox Oh Stt M J 94 59
Th rit n f ph 1 p b 1
t ee or L C PF FR B t J Ophil) i ii frac b t [495]

Final hippes could the first im the justiment C. W. St. ven. VI Ophthough 1 60.

The glietment for the tent to the prize a till to M. J. occ. 149. mt teq t L C [496]

U t oma f the o bit A T BEDFILL Am T Or bith 0 4 3 5 126 np rul nt teno itis I D Cumni s Brt M I

11113 A analy of the compen t np blema strl te t of Le compent f np Diema if f it et et i 1 j f y A C SNELL A ch Ophth royat | 37 7
The ec rd ng a d t atm nt f minor ev 1 j t
1 P Lews Internat J M d & S g 024 | 155
The path | y of ocula les s p odu ed by la k f
t mi \ N A L MSERT IN P 1 t s dem d e

9 4 XV I Bl dnes and other dse ses in children r ing f om the t ut it n (l k of i t sol lle A) C E Blocii

m J D s Ch ld 924 VVII 139

R: m d t a the apeutic measu e in ophth lm c G H LE t Am J Ophth 1924 38 1 **

G if Let Am J Upnth 1924 38 v trlinject n of mlk n th the apeuties f y T W MOORE So th VI J 1924 x ii 130 se of the eyemrit nt ge l yst micle i ny d ea D se of the seine it nt ge 1
B Cls MAN Am J Cln Med 924 x I fumpacted and u erupted teetl in c la dis Th

E Stiegen Atla tic M J 10 4 x v 7
soc at d th sug II o of the eye J M I ATTON S g Gynec & Obst 9 4 v 1 200
Tu th r | er at ons on new method fp enting post p t ve int a-oc la f ctio G H Bell N lork

t te J M 94 85 tel M 94 os
Os heat on in a chalazon W S Frankin d I C
RDFS J m W As 94 hrru 59
Bud modicat n of D ffe bach peatin f

e ly n thel oma of the low rld R F WRICHT Brit I Ophth 9 4 58 Ctrp Il co junctivit B H G ove Am J Ophth

10 4 3 5

19 4 lore 537 The different al diag os s betwee Parin disc je

t tis 2 d c | neti at cot c s i fetio l sci err Brt J Ojbth 0 4 ul 25 SCIEFF Bet J UJ Did 0 4 HI 25 1970J N ophth bma kert mal ci d xe osis v Ju c æ O Blecvad Mm J Ophth 9 4 3 s v 80 1996J Localiz t nofforeign bod es the eye M J Hunen 4961 R lology 1924 II 33 P Inged r 1 ton of foegn bod in the eyeb ll 1 MORRISON Am J Ophth 9 4 3 5 139 Dec lo at on f the sperfi l l ye f th iris R

Corps Am. J Ophth 1924 35 I [497] Th tech iq e find ctomy R G Refse J Am M 19 4 Lan 6 4 The i as se with the Gilster dalt lampade n I mil occpe A J Benett J Am M Ass o

Liq ef ctu n d absorpt of the cry tall 14971 lens r lat ont I nt cula op cit s C A CL re \m J Ophth 1924 3 5 1 [497]

505



Mouth

St utoley I M S Mrs & Boston M & S J 1024 CEC 251

Surmeal treatm nt of m li tmat o of the teeth an i ye Kitushen i on it could be declared and ye Kitushen i gi ha diges Zahih 1933 v 6 M lucel uncrupt d and impacted to the M. L. Sheak a and A. I THERR J. Radil 1 od 4 37. Local acct trainet t [130 nbc al col n. H. P. Brack 1 and M. J. 1024 1 3 6

The pathor of april 1 cysts (of the to th). On the color of the color o

STEETER I g bn d ges /al h 1923 I d ntix rous ey t pi a ently a sociate ! with a s per

ner ty tooth 1 Perr I oc R y Soc Med I nd 1914 x n S t Od t I g

Tootless c) t fite j w William V et ly broch

[Zahnh 1021 x x 56

lalt est without app tent dit le n (

Lifescur Tans Chr 1923 451 S.m. I et rs in el fe palate rk. H. L. D. Kirkhisu Te. St. t. M. 1924 xiv 577 Cncrith t new unle th influ f d m letroc I to a l x y C W Ha 7 2D J Rai!

1974 V 55 Cherfth thru i agl y reoli Disari Its i dCina i Bill et mém Soci h le P 10 3 xl t 1537

Thro t

Accorder h leyst with fit | th to lia vector blowth thit to the light blow stand left to all them we had do left to all the light blow stand to the left to all the left blow stand to be left as froget like a left blow and light blow stand to be left as froget like a left blow and light blow and like a left blow and light blow a

The Wingschit liet JBHW a Med J & 1 19 4 pp led semant tall town hill t) tted Y P STATEFER Therat (943 1

Jock.

Cognilf tulz fib L] ! H til 1973 l 584 At iw f n th F H Laury Bost M & S J k thh live 502 FRI LAHEN BOST MAS J 4
Though the berrett b 1 th 1 th
I fine the berrett b 1 th 1 th
I fine the bost of MAS J 4
The cubes (th th 1 ft) i 4 MAS of An Sug to 4 lz 1 1 rg 9.4 1 x1x 313 4 M F

Art now! my in th n 111 H beuphas | H H H | / J | F | t | J A

1024 x 1 2 2 Il art i l pe ti // I × 1 1 Tied I there the r

Then to ne we will the first of the modern or the first of the first of the modern or the first of the modern or the first of the modern or the first of the firs 1 5 111

Tier bin fgotranifalif in Alian ich nternat de laryn I 1921 x x 13 Gotrin the (r t B sn G W Mini tr (! frma Stt J M 1924 1 52 Cne 1 mic gott 1 Sed n be cred F Wirman

Se skalerk et lning 1023 x 1073 Cleltspes of gite the peciler fe nee to th

len m tu tsp wth 1 mo t t n of c es H J VA pr lien J M 1 State M Soc 1924 x i The oculor ri

ff in chil ! tl go ter F THOMAS K med I I Sase R m 1024 1 75 The tal a dt sal m tabel mine shit almic go te W M Bootune Mr esota M I taza it of

The treatm t fe rith lmcg trath teps to a se es fossest tel (5 latt 1 (malia

Joan ti The luft negithal gt HSI it is

MYR 2 1 1 M B THEN I I WA Stat M Soc 1924 66 Roe tren ra tir a ntlet tm t fewn htham e g t G M C twt d N B I Im J M Se

224 1 11 38 224 1 13 5 Roc teen ray tl r 1 1 thirt tu it fet mea red by th 1 im thele rate J N Re 1 (1 fin M at J N at

11) 1924 11 420 f g ter

A harmost 1 clim f 1 ray 1 Cl Tax 4 T J Am M 1 124 1 Ct Thy 1 tom C 1 K 10 J Am M 1

Theu in fil thy jel la lith l me tits fill wan ats surgettr tm t (H M) 11 1 4 t te V 1 5 1924 I stoper t e g ter prophila I II time I h

f kl (1) 193 e t i 211 Prathrod glands in elatint res T 1 Die min Bit M J 10 4 i 5 500 kee tyr Hm of pottoperat tr 5 i Miles i A M Trise M tr 1 C e rel 1 Med

Ct1 1023 1 0

A hthre undex bell of notth order i 1 1 1r ts] 1 typeol & Ot 1 924 11

I be of both ocale ise it mis t more fill rearmer bight C To see IIa it A (h l 924 n 22 The tre tm nt f tl l ryn loe c l t le cul l

The tre tim ne it is in more it is even in he is his this and threshis of Strato in the is See Med Lo I 1914 25 1801 in the Care I the care is the internal in the care is the internal in the internal internal in the intern In t time t I bron clary a 1 first latinal

H kt tr De tw /twh f Ct 19 1 1

I to a case of the largest H Switte Large, Rts. 1054 2 314

I not riem causell in cean Ithelarym
I have and D W rook I or R y Six Med
Lond 0 4 2 u Set Ian rol 1 [50] ccan I the larves

Land 0 4 2 2 vect lan rot 1

If s t i ette treet 4 e of it I not 1 I

M Ca tr J Langel & Ot 10 4 16

Vec de I mat to dittelan 1 it 1 2 4 4 d red intyer 1 1 4 acad and country ubs III

lan retires krouges 1 my homen invited

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Co er ng Cranial Nerv s \cute bead | junes C A HCLL \ebraska Stat \ I 941 3 An nus ! type of mese ceph le my ry d t gu hot wud G Procont Pich R me 1924 XX

The dag sis and treatment fbat int n i the adult H J CKSON Illa is M J 924 xl 98

The treatme t of brain in nes J F Con err Lan t 1924 h 63 The scope a dimit t sof subt mooral decomn ess acute brain injuries J G Lyerty \ rgin \ M th

924 L 84 The possibility of a remite ffict head in cas pot C E Mordoff C I form a St t J W 19 4 x

C ebral finding in the n whom and n ral gs E GOHRBANDY A ch f p th Anat u Phy 1 93 cc Iva Shrahnid nicto lipodias mithed ida

nos ng m dullary omp s.10 C JUARROS Sgl méd 1924 lxx1 8 The p the ge esis fee bral herma ft ca t mi

L TORCHIANA \ h ital d hi 9 4 iii 593 Anormalfu t of th p t t rygla d F R William

Med Sc. Abst & Re 9 4 355
The hypophys and bas I m tabol sm J Monte.
PAREJA An Fac d med Un de Mot id 0 9 3

Hypop tutan m associated with glycosun Gibson Ed b rgh M J q 4 n x n 8 Surgery tth pt try body wth all t t cases. C H I RAZIER A ch S rg 9 4 39 [50] A st dy 1 x triculog phy A W Abso W O Orr (50 } a d A S CRAWFORD Rad 1 gy 924 H 6 15051 tnel 1 c se f hydroof the I tr I Punctu cephalu Ruen R pert d med verrug 93 53 An w ope ti method f th tr tm t f chro 1 i ternal hyd oc phal i bldre O Hunese vo A ch f kh Chr q 3 100 The se of Benedek's pe u [506] f th L ll

local zat n of a sub ach d cyst ! m tra mati 1 k I TEURZÓ Orrosah tal q 3 lm soni epips) Cyst cercu of ten sol m th h ma bra B in bacess with p thol g call beerv to C B G-[507]

EEY JE Surg Gyn & Obt 94 xx
Bra bscess and hernia follow g u DATA DISCESS ARM DETAILS OF THE METAL SO THE

CO TY H E RICHARDS and W MOLLISO P oc R y oc Med Lo d g24 xv2 Sect Otol 41

A case i hæmat ma i th cerebell in communicat g with the signs dism's Diagnost importance of f paralysis a cerebell riesi Circuit A ch int mat d

laryng 1 9 4 xxx 30
Choma and its unfa orable seq la E W ERTH
Mo atsschr 1 U fallheilk u Versch ru gsm d 9 3 XX 170 94

1 th Localizati n of brain tumors by det munat el ctrical res t nee I th growth f C Gr T J Am M Ass og lenen 69

The roe tgenological diagn 5 f cra opharyng i pouch tumors h C Mckevzze d M C So Ma J Roentgenol 024 x 71 Roentgenol 024 H 71 1508 Int ac anual pain J F BRANHILL, Surg Gyner, & Obst 10 4 XXY 11 The diagnosis f occlus of the post no infine cere bellar art ry A Gornov Med J & R 9 4 CXI

Meningococcic in ningitis cu ed by ntr e tincul ser th r py C Achard G Marchat a d Laoure e Bull et mém Soc méd d hôp de P r 9 4 3 5 3 63 A case f s pp rative m ningitis d e t th p m b cill of Friedlae de with cut e ol ti P MENF TRIER and BERTRAND-FO TABLE B ll t mem Soc med d hôn d Par 924 38 l, 4.

A case I meningitis which rico e ed with fitr 1 bon thine d ge T B LAYTO P or Ro Sor Med Lod 924 xvn Sect Ot 1. 35 P chyrn g tis hæm rrhagie inte Med J & Re 9 4 cm 149 II but

Observations and topsy find gs in a case of occup t m 1 goc 1 A Trues a d A Gui at Re d rthon 10 4 XXX 57 Blat ralp ralys of the fifth cranial e ease eport MORE A t ky M J 10 4 t. The cl cal ign fica ce ip n in th

re uppled by the fifth rm: l H L PA ER M evot Med 9 4 1 69 Trig minal J RELIMOTER E b d 'n

g Zahah 0 3 77
Results faity in case of etrogas n ne rot my
DE B tte Brutelles med 1924 1 477
Observ t ns n th t hn qu f pl vu a reth (trigenu al r.) G FISCHER Egb dgs Zah h

93 n 66 l associ ted 1th act omycos a d m lat ga B ld m t d bects J F O Matter Proc Roj Soc Med Lo d gag xx Set 000 4 Post peratie u lgp fth ph op l t gal G Lees car 4 h intern t d lating 194 107 The gus of the ymp theres I Broeves Kl The goard of the hold of the h

tru k in the case of thyr d DUTHERLET DE LA MOTHE A h at m t de lryngol 9 4 xxx 83 Yastom is fith ecurre t lryng l ri fr pa aly is f the ecu rent l ryngeal n rie CH F azit

Spinal Cord and Its Co e ngs

Hamat myel f m complt ant n l t f th GUILLEMIN BOHEME and MICH N fifth reical teb GUILLEMIN BOHEME ar Bull t mem. Soc an t de P 9 3 cmn 78 Addiso (perm us) a zemia d bet mb ed I the sp nal d A F Hugst Brit M J dg rati 9 4 93 Tum rs f th p nal rd su meal treatm t a d es It A W Ans Y Min esota M d 19 4 V Tumo f the cauda equina C G McDo Ath Med J Australi 9 4 Th mport n f a compl t ms at on of th brosp alfied urgery fth p lood II J Mrett

J Am M As 94 1 tx 2 66

Emenments with a ventr 1 plaster mold in lami ectomy cases S LUNDBERG Acta chiru g Scand 1923 1 1 396

Peripheral Nerves

Cervical new fibr ma. P. MAROGNA, I. Iclin. Rome. 11 4 XX 1 Sez Chir Q3

Herpes zoster with moto paralys s W A Bloed RV and J Roberts J Am M Ass 1924 l vin 6 2
Ep co dyle and styl d neuralgia its jath gene i practical therapy A W LISCHER Arch f kln Ch

011 CXX5 740 Late paralysi of the ulnar nerve f !! ing fract the extern 1¢ ndyle of the humerus R GREGOIRF B II

t mêm Soc nat de chr de Pr 1924 1 23 P raly of the I ft ul at nerve in a nursl g ; d
south VARIOT BONNIOT a d RUSSESCO Bull et mêm month

See med d hop de I ar 1924 35 18
Late 1 ar nerve palsy E M MILLER Surg () |510 Obt 1924 XXXVIII 37
A case of matern 1 b tetrical paralys 5 E L F

Pr c Roy Soc M d Lo d 1924 xvii St t Orth ; The tre time to of scat cine rall, by a unit in R SERVE DE SANTA MARÍA Y MARRÓN Med Iber 114

n tan Mod m imp ements in sugy f th p ih netru ks the gad to endo it pg ph 1

٦ı Pur ore Ve ha di d Russ Ch Kng I t g !

Expensental a 1 class I cont b t pla tati n A CHIASSERI I Pol cl Rom 1510 ez chir 490 A new oper t e p ocedure in th tre t

MI alysi a list e pe imental ba \ D 1 1 F Au tr la 1924 1 77 510

I ripheral nerve operations a d spastic pa also s 11 LEHMAN I rgebn d Chir u Orthon 1023 XVI 5 m te results of operations f r injuries of th pennh rale rue II I tarra d W R Batsrow But I [511] 5ur* 024 1 53

Sympathetic > rves

Fig g calt atmet of g a pecto rgical t eatment of thoracic angl a F SE + 11 1 esse méd I ar 1024 xxxx 171 C ns lerat ons on the po bility f urg calt eatm t f

int I t the rgery of the ympath tion t s t m V VIDAL Pol cl kom 10 4 xxxi sez ch

Miscellaneous Lat if t of t mat c le s of the ner s system \ (IRITIASEN Pe med la 1924 x 134 Ir um thet has of rga ica if notio alnervo

[512] pe fi ty f streptococ 1 the etiol gy f diseases of rs system F C kos Now J Am VI A 0 4 l

Y r I g cal surg ry in Am rich A McC Will I h J 11 5 1924 55 r l'escala da ec lobservato s

S ALER CH Deutsche Zt chr f Nervenh 1923 ! 15133 d te hp qu nn loun tue T W Lates 1 M Bull 924 27 205

SURCERY OF THE CHEST

Chest Wall and Breast Immary t be cu! f th 1 : \ 1 x 11 d ch 1924 11 148

Bngntmr of the breat J C Bi Surg 10 4 l x 7

Lathol gic l study f th i c l
mary l ions W H Watte B i m m ΓĘ VI & Rt I tracan l cul r ep th 1 m f th b

An tld chi 941 A re new of fifty c ses 1 M 1 H 11 precane r I the b at & 1 TT

1b1 27 . . C oma of the bat 16 e 1 PELLER Zischr f & bsforsch a 1 ~ Marked structur I alte at n 'n Ix BB

c rr gafter el en 3 rs l M II l h s Hopki s H×p Balt 94 The cli cal diag os s f a n m (th b 1 W H 514) Berrie La cet 94 c

Trachea lung and Plu 2

t tas furt can of th tab latyngoscope 10 4 xxi 0
Coversat ns n 1 um roc ta
Bett z kl n Ch 0 1 11 ţ ı case of foreign body to t 1 ab J V 924 1 0

Lase quot-t L the rglt both s M I Me TH C au M 1974 1 618 If the cally is 1914 to or the property of the property of the property of the call of the

b chi schilde i J latterson Laryingscepe

Veile tlosygen milhysema achiliti g timpt til rm lof nijhelirr tek Ci Verle t l'orygen milysema timpt ter rm for n inverte to j I ri f i Laryng-sope 19 4 x 10 R hocep the lf sa i to unuul ceet I O Ir i Laryng-sope 19 4 x 11 99 Th relt n ffro checopy and exophagose is t

s rg ra i med a S Ichatta Latangoscope 10 4 Lat pleurop less to seep lat for und of the chit Brief Bli tmim Soc red d bis del t o a t

Sph! fth ! g H W C size Med H 11 1924

Springfil g W T Mt no 11 mb M J 924 Rs. 11 139

924 h s. 21 139
Theretolou c. t.t. (the l.g. mechan calf ct rs. nit genes and miles themathy rest used tread tread treat the t. W. A. C. a.138 W. R. LOVILACE III. 1 RA ET DE B J WELL J Am M A 1924 L 45

The sel ct on fp t t nd f perat thes tec 1 treatm t of pulmon ry t be c ! II LILI NTHAI S geal t tm t I p lmo ary tubere lm J C The reacher to the light of the culos F Ascitta to Am J S rg 94 7

The treatment of umple by rifinal p m thra H B blaw Irct ti r 924 c had I go al find g i e ho oc ceus cy t fth I ng a ll er I CLASS IN M 1 1 & 1 c 1924 1

Hylat desats f the log Is courred Sal mid 024 | X1 93 lbsc s fibelog 11 5 Las ter 11 1 Mutra A b Surg 924 446 Lung Sec L B M ck vzt M I J & b c Sp oclastalabscess fit ling V K wsox I Am M 1 s. 19 4 lux 1 545 Su gic la pect f bs ith ing W Meyer M d J & lec 19 4 C 1 189

(raded trapleural the sc pl ty in the tratment f

Iffus u slate 1 b nch taus C \ Hrong u Arch Sure 0 4 1/ 407 15151 R maks n the so-call d m d to 1 sert m (th 1515 ... 15151 1 345 St d's in ntrapfu ft ∫ R 5 YDE 1 6 Sug 924 364 [5 Arpri la ase fore m fth litprim ryb 15151 ts D C G er r Laryngoc pe 94 1 93
Ca 1 oma of the b H B O 7 N Laryng s pe 19 4 x xi 97 Mign att m rolth lug n cessty ir ly opera H LICENTUM At h Sug 94 1 308 [516]
Deep roomigen the rapy In pl t p lm n ry met
se W A Frans I T Lice to Am J Ree t g of 9 4 x 35 15161 keultoft tmetife fpulm ryggre by tiggre srothrpy Trato Bill tmem Soc med d hop d 1 924 3 179 Empyem R B BETTMAN III 1 M 1 94 1 R marks nth prat n [body fl d by m

Hat rissuctio app ratus and th t im t f mis m by suction PERTIES MIN 93 057 Set dagn temps m k D I 057 d n W Ass I a s

The tre tre t f py malck f cc file losed m thod R B BETTAN J An M A 10 4 km 100 Achronet um t mpy m a tyledby kaff p I F HERTZLER S rg Cl N \m 10 1 148 15121

Heart and Pericardium

Les seit ti Libeh et i syncope by the i tr cardiar i jecti n of ad ! Il ROTLLA D (vné ologie to a Olse t Olse t the regery fith he tandpose d m II wish uld here u d be t ed lest g t s the him heart meeles II know Ach i Frieard t my fo pp rat HRA SYLLI A 5 g 1924 1 pen ret 201

(Esophagus and Mediastinum

Pf tin fth ce-oph gu dut tru ttr with right of the ce. J Fr D. wald dT li Mr: Am J M Sc 94 lx 194 A retr anoph, 1 beers i m litraumat m G BERRY Lary goscope 19 4 120 I has any epo toler tograd orsophagoscop crofth solb gu I O livus Lary g pe 1924

X 1 100 The tre trant of a ma f the er-ophagus with rdum I I Care by Lars too be out x ! A se Imign t med t lgr 1 m tihe b se

fth plu fo Tat & B il et mem Soc med d hop hr tir J C reat 1 \ Lischer B ll
hoched d lip d 1 943 lr6
Thed g os a d tr tm nt 1 lrg d th CI The d gray f l g d th mus b the \max (517 tm (f)) 1 m () 1 7 HL R lediat of 1 to 1517)

Misc lianeou

Th \ t fth chest k D \ NAM a d

J H S ka EM Med T 94 1 38

C mp f the th a fit t th ra pl ts F Atsent Arch f & Ch 923 c

Ther I lymph ng tis a d de tis of th int
out I pres P Werriems R d ch P 9 0.4 1518

SURGERY OF THE ABDOMEN

hæm tm fth bd m l Sno ta a day il lingense a B t &i Ch 9 3 Old tribem BBC B t M & S 1 Ord CxC 449 C id t n t gultd biu t l
CxCGET R d ch P 04 1 4 . . 04 1 Si \ k itii Oth galnt (519) Brit J S g 19 4 x1 455 biruteb w d CRÀ I guinal hern Splomed Q4 lx 93

Abdominal W Il and P rit neum

1h tm h tl tht fill c td g l l n l n l vkinta Zet NHC o 11 h se C N N tm h vkinta Zet NHC o 11 h se C N vtm h vkig e d t g se Zet N kint h q f gu them tmy C T H w s l c t k l n d se Zet N k se C N k m h se C N k m h se C N k m h se C N k m se C N k m h se C N k m The pontroe of the term I blow so I g test gu lh renot m I AD I JAm M. A. 94 k. 69 Sttu gu lh mia JC Hi BARD Bost M & S I o 4 C 366

'c tichena port face of hern of Meckels d erticulum through the geater sciate fo amen J W BROD AX J Am M Ass 1924 1 xx 1 440

The u e of s ver filigree in the rad cal cu e of hern a P P Cole Lanc t 19 4 cc 385 The human pentoneal find Voct Arch I Cyn ek

Tuberculous pentonitis a dits to timent I C KERN J Iowa State M Soc 1924 RIV 58 Hamopento eum r port of cae I I Willow

\ braska State \ J 1024 17 65 T o c ses of harmoperat neum due t rupture i blood ssels in the gast o plenic ment m K M IN OT I an

ct 914 ccvi 333
St des n the h m n g t omentum F Seifer A ch. f khn Chir 1923 c. 11 608 M se tenc tumors J L Rawls Vig M M ath 924 L 764 The de elopment of adhes n th n over 1

Castro Intestinal Tract

LINDIG Arch f Gyn k 10 3 cx 324

Disinfection of the mu osa with to ture i odin in the o rse of operations upon the ga tro nt tin l t o se of operations upon the galactor.

P RAUL, J dechu 92 tu 47 [5.
D t ba c s of ga tric funct o H J Le 11
ber ka State M J 19 4 5
The val t th g neral pract tun A He Buste m |520|

ti of the toma h a d duod um A HE RIQUES

of the formain a u duque of the contains a second of the contains a sec

1914 CRIX Supp x t
Th teatm tof hypertroph pyl n st nos
POYNTON T T Higgs s a d J M B D on 1

Ope ation froyloosp m nifnt I (irch i khn Chi 193 v 9 Sgnific f hungrpa W. H. H. 18 J. M. Ass 1924 lvx 599

My late t conclusi co ern g g st c ! I

Morris M d J & Rec 19 4 exi Supp The cip oc i rel ti n f the ga t et et n nd bl od serum in ormal pers ns and per n with ul-komien Mitt d Gengeb d Med Ch

TEXTU 87 The pn pl ftr tm t fg t 1 ule n w f ecent wo k C Botron B t M J 10 4 30 [520] On the import ne of duode 1 fed ng n t tm t t pricules M Evenore B t M & S J 9 4 454

Jejun I alm nt t n m t atm t f p pt H L. Bockus J Am VI V 9 4 l 35 Med c l teatm nt f pept 1 th t ll l The Sppy te tent in the special specia DMI

Clinical ad the titled beft the potential to the terment [g1t] d dued if If the terret and taphy 1g idpth 1g iman ist to swith pit if effect it it not of the time the add dode model I 1 Fe d J Vers b sf th po-

Arch f Ved uung k to 3 % o A new t atm t f ul by th mas f the g

toscope W ST NEG Th pd Cge t 93

Dej enti, treatment ig to ndiodenal le nit e lt H H MATNI Md Khn 03 t

Sug ltr tme t is tnc a duole lulce G C MADILL N Yok State J M 9 4 x 1 246 Operat et eatment of je f rated g stroduod nal l'er I linguitta \ l de me l c) pecial 1024 1

The pre t statu of g stro nterest my ith car pots C B Err J So th Ca oln M As 19 4 x

t my a d re t on of the st mach Bop Deutsche At br f Ch

gaz el 117 1 tle Pwlo smill stom hof Lpmntltd th e et ry ct s ty of the gat glad afte 1 il th I d II d fte pyl ne o lus o acco d g to on I'scl Н Умпр Arhfkin Chr 10 3 ct. 26

IN MID ATTIEND CAT 193 CC 20
FW I mw !!! cd by gat od ode ost my L C
U H An Su k, 9 1! it 9
Th t igst endd od n luke nto ca cr
C k J N LS M d J & l c 194 c it S pp & 1
l etk tin d m gem t is spected gastne
c m m W W HAYES M d J & Ree 94 cx

5 pp natoth f ep rit neal

if t f g st r n intoth f ep rit neal I m v coma of th po ter r all f tle tomach

The Prof. 923 454 Lt plate Viatener Archiem I cmu y p 1 9 4 30 p 1 9 4 30 Lt pms caucofpes tet tstraiobt c ft rlescoflmil crc tn 1 M LCHO

Kh W h h 923 1 194

I luth ghinacatin meselicop h it idi? FJ Kaise Ahiothp L f li Cl 19 3 XII 5

teut at piniadit! haft in

BtM J 194 39

Ch pump t citin in y schilde

HI Wart i Sub 94 lu 44

Tum fit itet ca gitu uscpt J P

k weepy so th M kS 94 l 43

If occealint scept in a dult due t minte t l tm JD Highsmith Sch M & S 924 ix vi A ca of lulu of the tre mill test

Aca or it use of the end test J

R Boston V & S J 10 4 c c 230

Ther ulu ul r t n f the int t J L Parra
AD Ca dan M 's J 104 V S

Smpl ler f t t t e J Rutkon ki Ly J L PRITCH

9.4 11 The vilue of Tan usg nthed gnoss of intertal

n ca ce f the pylo us N DFILA MAN Pichin Rome 924 x i hr 65 Th lt of the ubm cosa as n din it stin l a 5t m tis A J GRAIM S g Gynec & Ol t 9 4

L p rim t lst dy of a pt clat ale t o tom by a method f I cing F Savioro R fo m med

of 4 1 67
The 1 h gp cpl sof gry 1th nice tesa d t m ch J S H ESLEY V gn a M M th 9 4 1

rm l fo m f the d ode l c p R (RÉGOIRE The hemu le 10 of the duod let to 15 C W. McClure O C Mo Tagt dl 1 CAMPBE L B t VI & S J 1924 CX 237

The fleet for rga could be the thought hanges in the blood fith dog after betruct of the dod um R. L Han wand T G ORR I Evne M d 1024 vvi Pres pt stat s of the d od Loue t

th pat cul r ference t urgery II BRO VER D tsche Zts hr f Chr orchruis

The sympt ms f t mutte t) d to adhe iter d od al ulcer R La perer M e chen med Weinschr 1923 lt 8
C rein m of th d ode um D M Vickers A

S g 94 lt ix 239 Smpl ul rs fth 11 madilum LP Brow

Fdinb gh M J 1924 n 5 xxi 45 [522] An experime t l ontrib tio t th t logs of pept c lee f th set m I vov nex Huarray B tr

klin Chi 923 CXXX 20 Th v l f l ost my th most refrms f t mo fo miguicer of the st mah F Erres Ah f

t mo ho m gueer of it is man f Ehrars in it is of home for the list of his order of grant at list of home for the home for home for the home for the

ercoming them W H STEWART Am J Roentgenol 9 4 68 A cas Improlon MSSAN Md I & Re

024 CXIX S pp XX Int 1 1 b tructio G M CRABB I I State M Soc 10 4 XI 77

Ch cint () ti o mch ctrit to u per undir SIRA LAN I t mat I VI d & S g 94 xxxvii 4

Ac Id bin ulc fith ol E H x
W J B oer B il t mém Soc t d P **Е. Н мм** 9.3

73 Cacin ma fth colo WHCR M is Bnt WJ TO24 1 83 ual

Anl cacuma ithelp setung a sydm EC kelly lli Vi J 94 xl Aco d t nofl ftheel t teds ted's greatly S Jump South I J 924 11 75 A ept cant st 1 nast m th p I refe c t

col ct my | I RASER and \ M D B t 1 5 g 94 x1,439
The fuel q y fth pot ns of th
rmufrm ppendixa c t ed by n ly is of 3000
cases R. J Giadsto e a d C. P. t. N. x iev B t. J.

(522) Solar 9 4 m 5 3

Th act f physo t gmin a d p t tri posolated rmifo m pp nd D G T k Cross pon th [523] M J 10 4 1 9 C) t f the me e te y mul ting pp d it s Larger and P Canev B II t mem S at de at de l'a

9 3 m 765 C ns d atr o Sema med 924 Acut ppe d n s o te app dicit A J PAVLO SKY

Acut ppe d it's with a sociated p n the bl dd R J Groom d W W R ED C l d Med 9 4 1 34 mulat g p ru! t ppe d tis Strangul ted h m

SURPRIME RECORD TO MINISTER STREET, ST

Obst & Gyn c 94 40 St 1 th apped | FALKE STEIN Z traffit | Ch | 0.3 | 182 The lose core m J M BELL Md Healt as 38 C c m of the carcum dasce d g col

Wiarr J Vissouri State M 4 1924 4
Wingna t d n ma of the cocum V Bayter A h

t I d clur 19 4 18 97
Temp ry extr bd minal nt st 1l
th o gha tube D P D Wikke Brit J Su 5231 The eff ct of stagn to n in the ending c 1

H W W GRAY Ca dian W Ass J 9 4 x1 91 R c ery foll wig bil te ale 1 si dp tial for t my of th b rmal an s fth desc ding col eec d t my of the be small and s till desc ding col sec d y to the culou in 1 m t fith pene 1 its es I ll wag he etomy F Parrix of P Leck 2 B B mem Soc nat h d Pa 19 4 L 37
The rectum sict chncfc 1 t V A TARKET M of Md 924

\ \(\cdot \) fees ous hern ring t it t d h it at themore has cum f D f ad Let H bo

ANDLEE Bull et mem S c med d bot de P 15241 3 XX. 478

Three ppt in cetated BENTHIN Archi Cyn k 93 ext 299 in cet ited the dim C. I DRUECK Am

P toperati e care ir t l 1 S g 924

Liver Gall Bladd Pan as and Spleen

Ih It tachl rphthal in li f cts t st G H OXIE J Am M Ass 914 lxxxx 36 Hydat d cyst of the con e suf e of th la HOXIE pe ang mto the plu le ity tre ted by plu otomy R CA
DE OSA DE VEGA Ar h de med e rug y e pe 1 9 4

Hidat did e se fith hier K. D FATRLEY Vid J A tab 94 27 Absc file b BR McGrat N bak Stt

MJ 94 6 Thali 63 cu thitry i gall bladd rd ase M GOLOB Am J S g 934 x m 3

Roe tg | gc | mu ti fthegall bl dde E A

Gran x a d W H Cole J Am M Ass 9 4 kx

Stoef glibladd inflammat ad t omph

Minnesot

Sto e1 g 10 Duard mnammat a d o super S O Nordon's A che fkin Ch 1932 cz 60
Th duag is fch ch leyst 1 J P Sch arm
dinnesot Med 9 3 677 152
Th roc tg 1 greal duagnos f hro cch 1 ystu
S Bissell M esota M d 9 3 631 152
Th. s g 1 dam as f g l b l de dis a 11
1 h s g 1 dam as f g l b l de dis a 11
1 (57) [524] 11 P RTHE Minnesot Md 93 683 [524 The signal tatm tidea softh gall bldd (524) dble han I A SCHWYZER Minn sot M d 9 3

(524) Roentg logical di gnosis f h l cystic d se R D CARMA W C M CC TY d J D C M Rad logy R D 9 4 11 80

hleystitis chillith is a d bl Obser t nso hleystitis chillith is a d hleystic u gery L W Frank I t mat J M d & S g 0 4 XXXVII 47 I dicato for ope t t tm t f ch i cy titis L BLE DERMAN D t he Atsch f Chr 9 3 | xu

th t atm t f cut Sb schley tect my that atm the test to Bonner Ly charge 24 x 87

The feat ent of a ute chiles to the level les tect my that damage CHALIRE Ly char 194 1 90
Praciplea dt char q e fdr n ge the su gery of tl
gli bladder a d th b le tract V S I our cier Cal
fma St te J M 1924 1 4

I tol ct n to the subjet of gll sto dieze J Be G Arch f klin Chi 1923 cv 329 Cholel th w th p rticula refe ence to th fect ns

of the gli bl dd and pace the complication.
Wiscerello R form and 1923 x 18 1972 15251 Furthe to t ibut on the p th genesis i chol I th a ss T Roysing Acta chiru g Sca d q 3 l 1 15271

Infect d bil a y lith a is ve motherapy h le v tee t my reo ery G Lrov Bull t mem Soe med d hop t my reo ety G. Liovy Dun Chiese Social de Par 10 4 3 5 1 40
Study of a series f utop in chol lith a J. G. Hubbard Bost n M. & S. J. 10 4 c. c. 36
Hubbard Bost n M. & S. J. 10 4 c. c. 36

Cac oma of the bil ry tact H R W HL M d Cln N Am 1924 \ 331 15281

Lth 1 an cessory herat canal A NA ARR
An Fac d med Un de Mont ideo 923
Ch ledochopapillos opy 1th f e c t d a the I pat d ct and dilatation f the p p! I J B KES
Ach f kh Chir 923 ct 1473
A clinical t dy of p ncreatif J B D M I

1 clinical t dy of p mercans

1 d Rec 19 4 c it 120

leute hæmo ha c pa c tit s lt g f om ro d

orms r port f a ca W L Gallin a d A B v

Am J Dis Child 924 11 19
Acute p cre tt wither ion f the plac it re fatal hæm h ge G I Mo cu I \m \l \ \ 04

1 txu 360 The grela pects fehon pn tt FD

Moorr III M J o 4 l

The spice and d tn St dy IV Fh 51 d

bl secrin the ect bl pgmet t fll wg plen ct my W pr P IN t Am J M S t n 9 4 clv 10 15291

Part cp to of the splee the t 1 f t f the f 2 N R C STEY B || t mem \(\infty\) med d hop d \(\frac{1}{2} \) A \(\frac{1} \) A \(\frac{1}{2} \) A \(\frac{1}{2} \) A \(\frac{1}{2} \) chr s

Miscelfaneous

I tigatio of top gr phy f the v cr in ano mann & Springe 923
Abl mi copy O P Sters R Surg G₃ c &

Ohst 9 4 xx m 66 H n though the f ramen (Wa slo A ULLMAN

5 g tynec & Obst 924 xxx 225 C ng tid phragmatchern A W TIBBETTS
B t M J v 4 36
I ent at of the diaphram ep rt f c se P R
WTHEN T BOST M & S J 19 4 c c 244 K SOUTHBY

A of ng n tal I ph gm tich Med J \ t la 941 89 The centgradig of hermi f the d phr gm I

Abd mi alt uma C H Root Neb ka State M I 6 the dagnos s of the m re

Ti tudy f ympt ms the dagnoss of the mre mm l n f the right abd men J W Gibbon to th M & S 9 4 l vv 49 Ds es it the abd mi alog ns and the late the gpp Es Med Klin 923 xiv 1261

Rountg n aid the ac te bi men D 1 Kerrii

Note M 1 94 1 98

Feal nfet the the abdome J B Deaver
J M un Stee M 1 924 x 1 3

The fl als exthe 1 nha ding pt e d ton thath belm RE IARR Am J Obt & Cyn c

Abl mu l ! rgem nt C lo EL Frg b | Chur u () thop 9 3 1 8 ()b t r

R 1 f bs pl ct my a l tu e f th stom ph gm I W H ERMAN Brit Rtfbspl hidphgm VIJq4180

CYNECOLOGY

Ut u

C t object n that fifth t B Whitehole d H Fether to J Obt & (530) Then tip tf plp
tchfly k o ic o 68
I t post ifth t nih t im
p lapse G C TT d Da R t 1 nth t tm t f tal Iy ch

I g ti fth t I V T A h (C) k 19 3 E Implitin t f th c h t tnfpripsedt G) k 93c 669 N Ach f t

d Admsogrt A JEHRN CAFR / t ll If Gynaek 93 lu 923 Mt lt f the bd minal pe ation f rt er

1 BLOOMFIFED La 1 1924 1 227 Roe tg gaphy fth see fthe tru fem l pel ft p m p it um liv (v ec l g 93 v

Art filp ft fthe utern H WILFGANS
D t che med Wchn h 923] 23 8
In loc rv t W W LALFA C al n Pact 194

The lt hp fehrnee locery t t fo linfe t the pe lef to ch the is I M New J Lab & Clin M d 924 Flet the more tery teatment of l cribes de to

doc t 1 Peters Califm St t J M 1013 523

That time t ign has lende its by heat BCCDR LS dV JOCOV R S g C & Ob t

(531)



A case of e str phy of the v gina CAVENGT P 1 t e pañ 1924 14 Fromation of a vag a from the smill of 1 get te t e

The path genesi of v g nal costs a 1 the r true ign f cance I lautitet Birla Wen iln Wich schr 1923 W hiple papill mate of the agn 1 Cetts & Z

Miscell meous

Experime tal tudies concerning the significance cholest rin metab lism fo th female gen tal ell I surpord and I Srissen 1 ch f Gy aek 1923 c :

New method fin estig ton gynecolo yad btt nes P Wegner Wien m d Wehnschr 923 le 1

Ane m thod of t ch g pel cd gn by mans f man ki J k Japre 1m J O! t & Gym 0 4

The value of diagnost son and dagn t tage in gynecol gy R T Frank I Am M 1 924 han 6 o

Vhandbook of gynec I gy d 1 stetn s J H i I Serre O Polano R Koehler and th B B ln to n & Sch renbe g 1923 The morphology d histology f the m t l l D Sexisa. Arch f Cyn ek 1021 cxx 10 The use of X-ray th appy n d t bei tu!

\$\frac{1}{2}\text{Rovor} \text{ in } \text{Object} \text{ of morphology} \text{ in } \text{ f Rovor} \text{ in } \text{ f Rovor} \text{ in } \text{ object} \text{ in } \text{ in

med Wch schr 1923 ltx 1 72

Theen tit tional fact rin th path g I goal hemoth g Serry Ar h f c ek o s

Kai mad mesoth num te tm ti h g g logical ham rift ge H FYM R KI Wh h Types f menorrhora B 1 c 18 1 H I Types i menormora de i ch Gesellsch i nn Med 9 3 4

Symptoms f the men pau p g t n afte a agn al hysterectomy and t th g f ti pause F Jayr F R fra c de go é t d bat nit o

Locali ed pel ic tuber ulo 1 NAT! 9 4 kmp c

The teatment of pli bsc e pe it regioning gn Maorroa Ahd i especial 194 cad med quirig esp 1 46

Stales in d pdi infect on fti ue in the treatment

septic d's ase of the femal g mtalia J FRICYESI and \ septic us as on the female primaria jurial and in the first of the first properties at the first primary to the first primary to the first primary for the

7: chr f Cebu tsh u Cynack 10 3 15x 1 181 nd 12/12/
A c of ch oneputh loma with pe fo at nof the 1 ru V S 80 27 Clin o tet 1024 xxvi 11 Obr at ns on chon ing oma V SVYVER Arch f Cink 203 Cut 454

Jurther of e ations n the th r py five icular mol

The iff ent al diagno is of metast size g cho i n p thel ma Il Derst Ahn Wehnschr 1923 1 1842 P n 2 oci ted with gynec log cal aff ct ons

I schott roy and genecology W Lipping v 1ch fa still for this topic x 507
Tle psychogenic tilogy and the treatment of leuco
hre A Bit care The ap of Cegenw 1933 I v 346
Se tal posch I gy and gy ce logy W Lipping
h i Capare 19 3 ca 277 279

Se ualf not o ald turb no not the treatm t 1 ha FFLD a d M Pars Man The p d Goge w 19 3 358 The stratment of esico ago al fist la field to the o

Ih tr tm t of essential ge tal pruntis ith th r t et t 1 Bercuss Schei md Wich ch 193

1130 \ c othe py g) (\nack 1923 c \ 384 gyn col gy Bucura Arch f

Acrit cal commentary in the alue fing ct in fad

per nt solut n of u ofr p gynecology f Quack / nt lbl f tynack 1923 1 1 1695 If t lthe appy 1 mil min to s ngwn c l gy F W L F Deutsch m l Wehn ch 923 xl r 5

I sults fit rmittent p at ry hype mm mg, ecol with a epo t of r 1 ases R I Brader \ \text{tm }] () t & Cynec 1924 \ 1 195

Th sgmi \ 2 C rg, ecol y [r hat of th bod c t s \ LANDEKFR | F rt h d \ 1 1923 x | 118

td nt ges I the d therm c current I the ultr

C 1024 11 110 Thu I the \ ray in gynecol gy \ Y F HANAS J State 11 Soc 1024 x 45

Reg la rether a ngyneco! gy an lobstetnes W R Mereker a I B C Bovar S rg Cyn c & Olst 10 3

OBSTITRICS

Pregnancy and It (n pli ation The d gnos of fregac (Mt Fi vir J vii V lss o 4 l st V g t a a a sympt mi fp g Zentribli f Gyn k o 23 l c V m tary gly su f preg midod Burne Zisch [f b i h 11 1 a i en stic k 9 i

111 116 11 Observat o so cap Il sm p g b 1p

Buthand R \ Rris J \m \ \ 0 4 1 The influence of the hadro the warre 1 21 h 1 1 B 1 923 1

C er gil b log cal nt fm thra Ichil 1 M see Monat sch f Geb rish u Cynack 1923 lts R I g thy of the f tus 1 ut r T I CANDY I rec Roy See Med Lond 1914 Seet (that & Canone Sect (1) t & Cyrac Rig phy fth It sin ute o C littes Proc Ry Soc Med Lond 924 x 1 Sect Obst & (30x

Ar dmnt tion off tusin ut m & L. Mctinos Inc. ho; Soc Med Lod 1924 x Set Obst &

Thu fite \ rays in ant nat I ork I W II S NTON and C H S II switz Lan et 1914 c 337



Labor and Its Complications

In e pla ati n f the proces f labor Sellielm Ach f Gy a k 1923 c 3 9
The mechanism of labor A MUELLER Ach f
Cyna k 1923 c 1 474 / ntr ll f Cyn ek 9 3 C emat graphic dem st ation of the ut ri e co trac tos fithe dg though n bdomin lido Ludwig Gynéc loge o 3 xx 1 660 Th action of fetal autolysins in the mechan in 11 for G FAVILLE Sperimentale 1923 1 145 Ind ct on of 1 bo ind c ti ns and metl ! S J Driskin J hm M As 1924 | v i 37 Thei eof hyp phys ale tr ct n 1 stetin P Bur Er Gynt tobst 924 v 136
The ritton of the hight of taction t the dita t n of th utenne ervi H SLYFFIRDT Z tall ! f Cy ek 1923 xl 409 Far and Itt cal efficie V I C PHILBRICK N braska St t M J 9 4 1 4

Dystori d to fetal cau s G K MFCRM (N J M chi gan State M Soc 0 4 v iii 40 The pact cal s gnif e of the e of the dff ntiat n bet en th oc pital and reptal pr tation I kie Zent albi f Gyn k 93 l 1 64
P lap of th I we et mit in had p ent t I' lap of this we et mit in hadpent?

Reprox Critalbif Growk 2033 xt 188

Modernthing etr tin plipentatin

Sour Detchemed Whispan 203 xt 183

I complete och pett ling of cill

be gtaltactino the fit (51x R f v. de 8 gvné et dobst 924 Thet catm nt f mpl tit n p ent t Sacus A ch f (vn k 1923 v. 5 Intenal podlee plpec with t I ttem thod I D SETT JOhlh m State M A 1924 X 1 34 1934 v. 34
Delery bs fun 1 j tin V C HALA alf
Bis Ar Refnclery ét d'bt 924 33
T hu! jars fbtt lf ps H Schrob
DF M nch md W h h 93 lc 434
The eltin fibeu if pt ftlm thiv
Grupper M ntssch fC! thu (y k 93 li 9 Cn Cn ghgh f p V Htt ak 193 l % The ue of Scanz s f p I k Ze tr Itl f D ut h m d Wehnschr 93 1 36 The k ll d f p A () S b If the state of th th II df - 5

Injust the umbil | di k || ni i tter Z t lbl f Gy k o Fί Heidte RIANZ tnielugh głnglho II (Rik VI) Autriot 4 Lt enuptu t tm til Lt eruptu E Bri i get de bt g 03 430 sornj tth scy lth (t t J C Labor nj t th x v H z T IC W R Vm J Ol t & C pe t n îi M) pe will the a VeN LL C d M N J 04 Carsare t upp t S L L Bit M J 04 6 n I L

Abdommal hyst rectomy de nr rpl ne se polamine ad loe l'esthet i l'C LENIG em J Obst & CNRC 9,3 1688
Lov cerv cal cares cti J C Hire 7 and W. W. No Dosse J J m M A 1972 1 192 1531
R ptiu ed casa can cet sea J B B 8 1 17 18 1 roc R y Soe Med Lon I 9 4 v in Sect Obst & Cynnre J P Obst M W M D P O BRID Wed I M Ed J A 194 1 19

The inj it is ni technoj finit siter tampo ade lisst i Zetalli Cviack 1933 liu 43 X hindy and pj dd c for oto compt n C Hivelicokyr 4th f Cyn k 193 e 333 Mod fat on of th Shirt Ingelman di c fr to compt n J Elektri Z tiribi i Cynack 1933 tire of po ty in hæm lag, by el mpang ff the gamein m / DIMERRIVA Vich i Cyn ek 193 c

Puerperium and Its Complications Pottlae BGHMLTON South MJ 024

The pt tourp alm talty R. I. Dicki sex No Ext I M of a 1 for a

Newbo n

The term of annius indo faply in R. Discorr Watch for Couth in Crock of 1. To 5. Study the defended from the control of the country of the first the country of the first the first the country of the co



Cystosc py by th hypog tric out n cy t tomi d p te ts A Don J d r l méd t chir 1924 Deticulum of the uray bldder ES Junn an I

A J Sciott Sug Gy c & Obt 04 v 14 [541] Urocyst's gra uları n me k M EDA Ach f

path Anat u Phy 1 l 1021 c ly 189 A case of syph I s of the bl dd r G CIRILO Rassey it maz dicln e te ap 94 92

Ri and in the med cal tre tment of t be cul scytts C FELETTI Riv stal digi C 1924 B cillu b fidus commu s 1 rt

f tms of hem ith gic cyst ts : e rly childhood Git EPPE CI RILLO J d of med et hi 924 i 25 Collod p thel ma of lla toil gn f th fund of

the blad ! A LAVENANT J du 1 med t chi 0 4 TV11 43 An analytical stidy of oo cale fill tid call k bistruction peratid upon by the in citing unit JR CAULK and JH SANFORD JU of 94 45

A hi to ic 1 sk tch of the ugilt atm t fell calculu HI SAVFORD JUol 94
An an tomical deli 1 study fth p t t
thr R F Hair No thm st Med 94 1158

C leul mau eth al di t Im A Vor B

med 924 vi 7 Acae f ecu e t mpa ted alculu th d 1 thr O D PHELPS Boston M & 5 J @ 4

47 d th Dagnost c co der t on f th g ococ d plococc i ch c ureth life t T T I WHILE So Virga M Matl 94 1 775
Recutrict a fact fth ml eth

mensofalc ltat plt F (Bran Uol 9 4 x1 197 Cacim of the pe J (SERLL Am J Sg 9 4 XX 11 36

Pimary sar m fth p ept fc wth tew of the lte at JJL Sg 63 c & Obst 924 xx 1 5

Genit 10 g n

Deep oentg thrp 1 b gn hypet phy fth prostat G F THOM 0 4 11 90 Sugy f the post t K TT deutsch C sell ch f Ch 9 3 mml d Sup pube p t tet 3 t 1 1 L W POLLOK Te s Stat J M 9 4 Ac teh ll o foll g pe t [541] c e4 563 pec lls p ostat t ms J R L STMs
MAN J I d a St t M \ o '
Some ch c l ' th acd IJI KIL 43 t t J D B RNEY a d \ C C I Βt 1924 67 9 15421 Th teatm tof f th g t t ιp HET P ris ch 1924

Trum te hæmat m f pe m t // II II // Hi t ge of cyst f th perm t d I Arzelá Archtldch 94 on Studsnihmmt fib d f

Taulummae nd \ Si i /t h f 1 Chi 923 XI 1 5

Ster ch r ju en t on ope atio K M WALKER a d J A L Cook Lancet 1923 ccv 23 Tumo s of the pid dym s spermatic co d d test cul

tunics a re of the l te atu e and eport of th ee new cases I HINMAN and T E GI SON Arch Surg 9 4 100 Tuber ! sis f th t tile it r lati to t berc lost

I the tige tal F S SCHOOLOGER TEXAS St te

J M 10 4 xt 561

T m 18 f th test | F HINMAN 1 A KUTZ IANN

dT E Cisson C If a St te J M 19 4 va 48 Carci ma f th t sti c c noma of the un ary bl dder ca e port C W J FEERSON K ntucky M I 36

94 1 10

F ctors men g t to the d gnows f st alt; I EVNOLD ID M COMBER \ \ LSt t J W 10 4 REYNOLD X1 04 Stenlitz 1 them I ISP TC: Can Ian W 1 s I 0.4 37

Miscell meon

A e feri au JRUTKU SKI Jd olmed th 194 x 4 Chr critin of n 1 3 g boys F Been St oaler 64

E esnyung m " I S I LGH Am I Sug 34

Obstati th G ! !! Steckel ope ton fr ary noo the e A MANDELSTAN / tr [] [m k 923] 1889 d etop the grice out fth g to-unn ry A J CR vill brg (yn c & Obst 194

B tru a II C CREDIT R J U 1 924 89 Onb II c! f ti softh u rytat th p I feecet th p ce f mul x mu n the free F BA TREE J O! t & G see B it Emp 19 3

gmm n the U 578 are tite HHY16 JUol 94 x

U aryant ptc in les it i ii dm t t n i fi ii Davis j (543) g the al I Davis J Ur 1 94

MI til the befine to tume RI HADEN dTCORR B!! Jh H plan H p Bit · 58 Th diagnos The diagnost not me to the second of the principle of the second of the principle of the second of t nd m gement of s pra es al hæm Tip t-dyt niftratm t fg [544] ef et the ct plot ppl at o of coll id ATIz st JRy \ M Crps 19 4 zl1 5

A st. had d \ yt ch. je u ologicale smi a

J \ M M remitdov J br 1 924 183
P) 1 g ph) \ \(\text{P B AE SCIT E gebn d Chr u O th p} \) 10.3

Local asthes a nu ol gical s g ry A O Singuator Stat J 1 19 4 1 565



es 1 772 & I 15 0

15521

te c of smill bre so tel filr ma f the tla 512

Surgery of the Bones Jo nts Muscles Tendon Etc

S bpenost 1 sect f long bone te ms i ti lyst of the method of tret ent the rpt f s H I Brys Sug Cyne & Olt (550) 732 Docum the peratue ir tim nt i til RC Temseif I Versee H Pert ni th tł ti 15501 Bnt M J 1923 11 06 Solen's method th clar I tre tm t • C. Teo cut I i in I ie art cul # 1 oc r 9 tt ez p it A Tiere B tr Al Ch 93 vv Lil A THERE B tr kl Ch 93 vv

Dital trap intain b ldm teh 1

OFHERCRER Vrhfkln Ch 93 c 4 5511 JOINSSON Zentrible Ch. 1931 Sof Traplet fith planar 1 & the fith teap. DM ATTREN I CROSS Well defined to the carp. Place buttet n f th first m taturs | 1 104 et Oth p 4 et Oth p 7 Apposed mod fidfn pet n n the p combinion t producen id nkl learn J B e & J nt S g 1924 6 Th antro t t th hpj nt Dire (551) FRE FLEF P i Chir 94 Sgv fth k jnt W C C 5 th ΝŤΤ 0.4 8 The tratment first 1 15 F 50 tl 1552

tinf th tt 1 tm t f 94 5 Fractures and D lo ti s

co gent lel b frot I 5 (T J B

An op

In mplc td d locat f th 3 11 PPER Im lt K Sc n l tre tm t and 1 te M Sc 10 4 1 44 d I u at f the er t h ld) B L CHARR Press m d I f th f für f Blitealt mt dal t Priz \hfkin C! 13 . , , i l <u>Ç</u>u Shille Thof t Shile William Adop Ac off ctu fith I to the work of ctu fith I to the work of t tllytmpo (ko r fth ! tth fn olted 1 1 t | th | tth fr ď 641 LLEINS PR f th tht d MILE I 0.4 S t O th p 6 15 1

T u at colt rator dislocation of both him I H MATIER But J Radi I 924 vay 6
Tr umatic recurring bilate al bt r t lu ation KOCH 1 ch f rth p u U fall Chit 10 3 vi 6t VERRILE P oc Ro Soc Med Lond Q 4 V () th p t O the p taneo ec ey f cong nit I disl cati n f the h p H C SLO IN J B e & J nt S rg 1924

tre tm t of one n tal chr 19 3 l 136 Fract of the fraur cl ! t is R II RUSSELI Bt J Su L t J Su g 1024 1 49 [553 Imp telf tur fth ne h fthe f mu K Speep (5531 Some mpleate following interal first new of the fem R M Scharfler Surg Cl fr c

Am 1023 1 1631 15531 The term nt fh bitulp tll rlux ton I IRAN Hein A chi fel Ch 193 x 426 13
D 11 t1 fb 1 1 t1 C \ A cari \ h 11 l liche 193 1 658 Cmpes o les age f t e of the ankle just H S FVEXS Sug Cjec & Obt 0 4 7 751 34 Th transcle elr t C BLACC ARD Pr emél

0 4 1 16 The prenors epph | 1 he fretus M K t I R pres \ n tal d ch 03 8. 84 [553] tur s 1 Dicksov and I L Dr. LFY Surg Cln \ 3 17 0 ip tin the const tut n it to dived r St I M A

945 34 me tech clch i i f ctu s apprm I cel ch foth p w U f ll Cht 10 3 v f ctu s appuritu II It Ilnt tret J W Wmrt B t I 0 4 c 24 Ih ult ftr tmnt foll ig npi lfr tues n. 1g1 life R J Cox J B n & J t5 1rt f man pete tandpoint W. Leve lant of c 13

O thop d cs in Gene al

The blanth appl St R Jo LS 1 t 074 C 1 1556 The site of the control of the contr Th 023 TIV 1 43 I tiltet tip I CH moson J Med I C R 19 4 1 40 Itilaam CBLIRF Bt M&S J 9 4 45
I h h R H Parano F I ctr 4 ec 1251
I th j t db ck R D kr NDY 5 g
(na & Ott 9 4 vi 24
The l m ch n lt atm t faute nten polovit H I art Hnt VI 10 4 265
Posth of the l mbs J C vzpo J d mél de

1 H 1054 idele Sun Jo Cova VII An t clit I 04 c | mpl d1 | led | foot | J | m | M | A | 1924 | 11 30

I CALL >



The tre tm t of the s c ococcygeal us M R BORNES State J M 1924 XVV 204 A prel m ry report on the use f qu in and urea hydrochlor J in the tre iment of fi e t i B (xxixx) J I ha a stat M t 1024 x 50 W and dj hth ma W Grossiass a d L kadice Mn Web chr 19 3 1 2126 gic I standpo t W DUNKEL Dohth na fr m a rebad Chr Orth p 1923 x

Annethesia Some cent leat! niranesthe a C Hail Mei Justinia 041155 taxe u a s lient fine ence with 8,0 taxe u a s lient Fine ence with 8,0 taxe u a s lient Fine ence with 8,0 taxe u a s lient Fine ence with 8 tax ence with 8 tax ence with 8 tax ence with 8 tax ence with 9 R port of 100 acth tie Inu fe I th til gt FF Milderer VOlans W Col 141 393 F Paper ! 1 Au 1 h 1

The acts n f plosph to and anresthesia K Spino Klin Wich sch | 021 | 2 10 lin Wich sch 923 2 39 Some ge eral fi ci of local angesth sice a lm n 1 re l

sin ton illectomy I I Ios Ann Ot I Kh 1 & Laryng 1 1933 x 31 1129 Ther late hip bet ee thiche i I truct e local anasthete if et of allah nd leven lester i

P min ben c cil II Gray 1 h f exper I th t

DOUBLEDSY and others I roc R 3 Soc VI 1 Lond V oca e zesthes i (F Corrie U S V 1) VI B 11 024 XX 154 I pe sene s with lumb ir an lace 3 W IAIR Arel

I (vn k gaz e v 169 Still anaesthes 11 va SLYRARY Bill timm Sac pir 1924 l 15 'p lan iges (1 Ti wr~ Hact lı 74

'p al asthe 1 (kyrty) III I TOL 1 1 19 4 lt 183 1 1 1 1 nethen 1 Weget R d chr I

2 1 120 The effe t of postur risti u i CI PALMER CIT mast 1 I M 10 1

PHYSICO CHI MICAL MLTHODS IN SURGERY

Roente noi gy

Vy Iral mprict it Suff R LLTST VIR V R LL K V I at pt 1 th 563 1 (11 1 6 1 1 25 Stiditinof \ I tict I S B IS Mod n H ; 19 4 vi The t il ne f tg 11.1 mithelepoceses () 5 t II tì mi Th if nce fit 0 1 1 6 1 N Mari nd th metal ! fth ! L A III / CH RL St H tl F 1) it The peutouses flort Т tt t 5 trav and r d The lut f \ ! ı K 1 1 15631 9 4 1 74 , lim sperime i l roenti. 1 1 ξŧ 1 't Ils the tmlt 1 1 1 L little and H 1 % Mι Min Chir 13 3 The of th . 11 . € ř 1 W M 11

m tinmlen to red Wheel o 4 t t h Roe ten tre t t eth rate of 1 m 1 Ree te a t tm nt ti !!

is 7tel (if i) ki l) t tel fut H.E. CHAIDT H 1 11 wh 11 o

D 1 \rytherap C Butter \n 1 c lem 1
d M te 1 0 3 500 D | N | y | terp | D | E | K | Mm | J |

The p | I m | f | dep | h | p | C | B | K | Mm | J |

ke tg | 104 | 137 | f | gh | h | N | S | C | watinii d Vrsthraps I C Sci Erres Ch g 11 Inc 04 113 anirim La 1

The ptign of wts. anir! Pa and Fill rack! Which out 1 234 0 1 1 2011

Radium

Mill finite gill triliplate fil finite po Winistria im Jike te 913 | 176 l es Ħ m ; ; stresh 1111 W M nth 19 41 65 ١١٢ Ñ. stleve frim 1 1 THENEW J Am 11 1 3 6 1 380

Misc History

If m wit the ideath in a male line the keeps Linch file the Thirp to 3 xx fi see fit nthiat I if the self of the It with war I had I his 4

ure 1 z 111 culos 1 11 . . [n & 9 3

MISCLLLANDOUS

Clinical Entities-G neral Physiol & cal Condit na

Phy logical t des n urge It tl e penods f perat work Lapes Ach I ki Chi 10 1 C v Ge eral ndloc lehll g n wa b sed the W ld War OSTERLA D V oeffe tha d C b d Hee es 5 t t 1923 1 87 Hee es 5 to 1 a d ph s logical study 5 to 1 Cl cal and period 1924 to 1 88 13 139 Cl cal and period to 1 st dis a th q est R Berr ER dl Sci tome 1 a d ph a logical stud a 1 hock q est n of hock d t hæm rib. R Brett er d L Sciol. Tw app utly fatal c es fe m el etric l hock r u citated aft see 1 h rs aft artifici l respirat
5 Jelliner W kin Whisch 0 3 x 83
I ritat on t m rs (Joh Novié klin Wehnsch

9 3 11 23 It muscula hp m G M rolas O htt 925 1 74 485 Malagn nt opl m cll dal a d lectri l phe n me D C A Burrs Med J & Rec 924 c 96 The so c fel m ts of growth in mal gn t t m rs I IREL D a d G LAMIER W W Wch schr

93 cx 863 Res it of t mulato f cellular ummu ty in th 1 t m t finaling t dise es 1 T stullaber M e che
m t Mich sch o 3 lxx 433
The ca prot! m W M Crostov In h J M Sc 1924 63

Th questo ip d post t can nib rediable ty i a ce j A sur Schwe md Wch sch 93 1064 Bign ir a h n th serum of can r spt nt

Blight an new setum occasion of the Morzaker Cymlog og 3 657
Thouget of of edgetal cognit (ac L Dw. L. 1 the Cymlog of the Children of the Chi

Anat 19 3 XT 1 386 Met ta f m lan ti c er ghte n r m i f the yeb ll A F W an Jon so er ghten yrsaft r

MACLEOD But M J 924 3 4 In theh mat growth dilpm nt tth ut fa BROCO NICAUD d GIET B II t m m d no Soc an t de Par 19 3 xc1 753

The square treates t see J Rasia
Go en S ma méd 9 4 2 t 1 8
R d th rapy f P traoth lan h

O23 X 447 Cace thrap fem the sign t dp t I C Im J Roe tg n 94

I d th my t oplited sees (.) War An Sug 924 Ix ۵ ' St des nith d el pment ferpen e talt esarcoma mic B Lipschiert Atschr f Krebsforsch a i The teatment I sa com I Pacent I me h 447 9 3

General Bacteri 1 Mycotic and P oto an

Infections Th q est f rule f t pt co. I Pattrep ki Wh schr 923 t 95
pe in therapy f t phylococcu fe to s L Iortx
sov les mid Par 94 x 1 145
Col b cillus feet with tree gazed port of tre

Lol Delin leet win tree guized port of the foll ed by acute n phints with rem and bite 1 up priv proit Deliner Bil timen Soc med d hep de Program 14

Amfilts 5 fight a dite timen to be juit and gland to evil i Ekicu Yrch film the 93C) Now m thou f the st dy f the p the logy it eat m t f t be cul dise se SRAF WR HT La t

974 CC grater At tent I great the culous Rogent At tent I great the culous Linux C Soop 16k Eek 923 1 893 9
Areportof es Icuta thrate ted by thoc 1 dg e l. denu ist in I Lanthra serum

I C Rec nd C Reca. Am I M Sc o a cl i 55 h nococcus naphylaxis J H B rrs i Zisch J

dgepe Med 93 xvvi 75
Twees! tomy JH 918 P
RySoc Med Lod 924 1 Set D m.t l 2

Ductless Glands

doen lg CHLARCE Bost USS J 94 37
Drage ith ndorn gld to thook f t de t d physic H Zo per B l pri g 93 the threese f drie trest CP to the Med J train 03 6
The se d bu f doorn by H A Christian dn VIAs I o 4 1

Surgical Path logy and Diagnosi

The rgre I gmine ce I p

g Gyn & Ohst 94

The tripret t I bid in I p. # Jo H Gc # I Am MIA O all x 604

INDEX TO SUBJECT MATTER

ABDERHALDEN te t n diagno is of pregn ncy Mod ficatio f 433

Abdomen I ervat on f abdomin l wall 13 sg ifi cance a d m cha m of p oduction of pulmo ary find gs follow g int apent e l ject in of cell la and ert lem nt jo aft result of tube culos of in child e diff ent l d gnoss f su g cal c nd tins f and t p calm l na 2 7 contusio of a d subcut n ou 1 jun f the 1 cera 217 cla tion of right's ded pain t right ided disease 18 impo tance of p ra ertebral injetions of no oc e in different ald gnos 338 innervation of adhe on in 339 enceph lt s m l ting acute condit n and chronic infection of 421 s p pub abscess follo ing roentgen t eatm nt fo

fib om 4 7 d amage tube left in 47 Abort Vag n l hyste ect my in p to tis due to 2
st t tics on tre tm nt of f b | 345 vies s d bserv to son 435

Abscess S bph enic 120 setr pe stoneal p at [r subphren 19 lympha gestic of ck 4 up pubc f llowing one tgen t atm t fr ut is fibroma 427 S. Is ames f g ns nd pa t. A et b lum Exper m t 1 tudes on fr ctue of 5. Ac tone Changes in in blood during thy o dop t n 3 9

Intr os trypafla th r py in sept c codt s 6

ct mc ay in ce tan rthoped c conditi 564 Act mycosi Of pn 244 of h d d e k 67 Adhe o Inner ato f t a bd m n 1 339 a m hest

Adre al n test Goet ch 7 Aden I Se tit ty of trd tad m thod f pe ting my ry duing dp tgm y thapy 45 in ervat n fcap i f 36 p th log c tmy of spotaneou g ng en 64 l tn f to th r dinrts 268

Agglt ms Iso agglt n n blood of wb m if ts

257

lichol I yectro s f postble d; tt tas llectom;
u de loc l asthesa 6 fill ; fung f tril
to f surgel trument 50 mbb; pia du

Amblyopad eto buse f I holad ginn -dyse t Amoeb s Amoeb cant Amp tat n Slee fthigh i 360

Anæmia Hæm lyt po et c y t m p m y lue i pl n ctomy 58 e d n g preg yt t d by ep at d blo d t f n 343 Add n s pe t n f ncis daub ut mbieddg spildcoo

Anaesthe i Al hol isthe i Al holj t ns as p bl adjet t t sll t my de loc i 6 w lg nob t tn cal d gynecol gi al pract 43 cha g blood blood e u due t per ti poc dures 57 m du ed with truso id 6 pobl m de t observat o soo case o place c by happins m thod o pe t f ngunai hern u d local 2 polm e morph emin by t left ln ry bl k in bst t 3 techn que f de a

techn que f d c g f pen m ll v thq posten r p l t d t 59

duct g of abdominal symp thet c so obstetrical analge a a d 1 d ced with n t us o ide o ygen and va ious comb d methods 2 6 painless child birth by syne g tic methods 2 7 splanchnic 1 nephrectomy 34 de-etherization by means of c rhon doude 1 halat on 60 pulmo a v entil t n d ether tension d 1 g 260 importance of p r erteb al niections of no oca e in differential d'en s 338 for child en 368 f om su geon s point f v ev bronchoscop c ob ervations on cough refl in ton silect my u der general 400 oper t on fo bilateral sheet my u de general 400 oper ton to blateria neph lithia u d local 443 ethyle -oxygen 463 ego al 1 gyn cology and b tetnes 533 abdom l hy te tomy der morph ne copolamin d l c l 536 r lat n h p between chem cat struc tu e nd 1 c 1 a æ th t c effect of N alkyl ed leu ol e ter f P m b c acid 56 general effects of loc 1 anaesthet adm istered a in ton illect my 561 effects f p tu e on claxatio

d 56 n m 363 f ll w g gunshot w ds and its su gic l t e tment 456 S l A tery

tetment 456 S 1 A tery
largen pectors Operat t stment of 15 po blity
of ele g by ecton f poste nor rots or corre
sp d g p n l erves 5 es cton f symp thetic
fr 6 tr tm tof by e trpat on of c l l and the acic symp thet s 4 8

kl I p ime tal in n of cadaver fo dr i age of 49 if t n ar r p g si nd tre tment f
i ctures of l g d 361
trum f H ghmore F t l a r embol m fte puncture

f m x ll y trum g s mul to of acts e pul m ry tub rcul by p less m illary sinu t s 3 7 adical per t o m xillary us dd m ge to te th 398

a Cha ges in truct e of i t stine i m n associated wth frm tion of the al 3 tuberculo s of and ct m 1 3 n w oper t for a o ectal fist | 213

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3

A tits F e hæm hage de to hon 3 trph ingeal jo t 4

end tis Ch c in fa cy 31 ble of bacill within in g gen and use f ntito n f B il nd Pritchett tre tment 31 rel tion hp be tw g t c le a d 205 oentgen di gnos of so-clidhn i so-clid h n i lto of right sid d bd m n lpa t right ddd seas 218 sympt mat logs

drd logic l fi d gs i chr c 42 apped S gry of 3 a m and ca conod f
334 lt feq en y of art us po tion of 522

334 it requery or an us po tion of 522 ction fph; of gmi e nd p tut; on isol ted 5 3 Arm So-c lled b t tinc l p aly s f 41 arm chest dheson b chi tho cic dhe on ill ry web

1 ty 1n un m feal 138 trumated et sub y un un in t an 133 to unitate u et sur ut ou ruptur f emm n de t n lulac 53 end es its f rieral tran pl t 154 j gulo-a ot d'art no n s eursm f b [5k]! 154 cut ou ruptur d m of pot ior cer b 1 363 at n 1 mbol sm of 1 mb and it s gic 1t atme t 457 di gnoss f oc lu n [posteno nf n ce bell 5 9 S] \ eun m Blood el

Arthrit's Go heel te ted by intra a ticula ini c t as of a tigo coccus serum es treatment of with high d frdum emanatin s te tment of chronic d forming 1 at dise s s 54 pe tion of def mit e in acute su g c l les ns in child en 146 ause of failur a tre tme tofp rul t by rthrot my nd mobilizato 48 gonorrhozal nd ar throtomy 48 second g eat type of chronic 356 per tive t atment f teo-arthrit 55 S of Io nt nd names of sounts

A th pl ty 49 359 360 55 Arthot my Causes if I re in t atm t i purul nt rthritis by nd m b lizatin 48 g rrhoe l

arthrit and 48 usep s Errors n pt t ch qu f q tly e look d ₹6

Asthe P c tic 8
Asthma a d 1 f t ns of c sory asal in ses 307 A toham the any In fury cules s my dem this a d oth loc lifet s 59 jections f t gen s hæm lyz d blood etv a d t mal dise 257

ham lya d blood etv a d t rnal dise 257
Autot an f 10 Ob ervat as f 57
Axill Art rial symp theotomy f r r l f ensory d cı latoy dı tub sınıh d'du t wud f with in mpl t sect n ib chi lple us 98 lymph orrhorae cut tel ng ut r fb ast

oc ullary web 440

BACILLUS welch: Rôl fig g ppe dct 3 use f tit un fBil dP tch tt gan g en appe d'est due t 3 B ck Etiol gy a d d g of p ins in 55 peci 1c rset fo cond t ns of 449 S al Sp \ tebra

Bakach Riat nof t gyn coi gy 43 B raque Fypen nc wo ki g thi B Bue I d pendent tent f d n g c n al sc ef m ctru f prochet l ngi 16 ffet f n drugs as ret a f a dogs with fistul 4 Teac t nin bl pgm nt secr tin fllo an pl ct ms

Bil d cts Cyst fhepat d trm edby pe at n 34 teng fright banch of hptcdut 34 t tme tf tes in common dct 36 co dit fe mm du t after ch lecyst ctomy 37 accid ntal di is of common duct in trograd ch l cyste t my 37 genital tes and st osis f 1 6 di gnos man gem tof st es in commo duct f common du t 7 ch l l this d biliary f ct ns 4 2 surgical tre tm t f dise ses of gall

bladd nd 54 c cm ma f blary t t 58 id T be cul u of d kidn y 46 g d l mpty g to dit d d 48 r p d ty of t f rmat n g to the unit of polyout i final in a footal trp to f 5 s gme t 1 resects of f r n plasm 5 de etteculum of 4 54 clin cal p ctu of luet c les ns f 4 path 1 gcal delinical tudies f p p llomat and care in ta f 4 result f an us m th d ft ting t mors of 43 my plasts pe t ns urmary nc tin of 43 my plasti pet the urnary ne the n finale 335 hydrot by nd hyd phase for q et see of cyfind p lapse f dut ru 442 re o escale! n baell f to d to cæ al

tasis cured by intestin 1 a a t mos 44 t c t all br 445 repure tat n f cal co te t

bstruct operations but mycoss fap 44 f hypophyseal e tract yo Blood, Co guide for som of the mbo g to sold to f peculi org som of the mbo g to sold to fire from 55 experim tal d colloidable to find 50 experim tal d colloidable for sold for good for for fire for the first form of th

X ays n coagulate n of 5 a toharm th rapy in furunculoses pyodermatt a 1 oth rloc 1 feet us 50 seo egi timin in of ne born 157 blood changes spo taneo gangr 256 change in cet e of during thyroid ope at ns 319 no p oten nit og enous const tutents of in eclamp d lb d con dt ns 434 b cteril n as of a fle ced by X tay 466
Blood cells Val e f sedime tatio of 1 5 gery 365 559

Bl od p es u Ch s in d to operate p oced s 57 in urin ry obstruct o 145

Blood tra f n 58 case of a totra sf sio 257
hæm lyti ti f sodium citrat in 258 se tre semia during pregn ncy tre ted by epe t d 343 intr perito alt i in inf nts 364 true aggi tin ti n d p eudo- ggl t t n 364 immun

ta fus 457 Blood es ls Liff tof nrs [zng nd pen a tenal ymp thet my n of hmb 4 h ges in of ut rus digp sh cy 42 s gcala t my f of par n hym tusorg sy ciculati f gmod ectal s gm t i tanspi the fist r ly scula ato 3 impota e fy scul fination in ato 3 imposta e fy scul fination in enore i tue 34 fl er nd off m r dtb r l ton t p th logy 244 mesent nc a cula occl 356 radi m th py of ascular zev 364 S ls An un m Art ry V in

S If An un m Art ry' Y m

B Cyst clease 1 5 458 tim late of paraly is
of imal cells by rot to ray as a him by goon;
f abbt and cat 6 6; it 1 finds m is s 1
tube 1 s 1 o s 1, 66 tubercell is late of
second 634 o s 1, 66 tubercell is late of
second 634 o s 1, 66 tubercell is late of
second 634 o s 1, 66 tubercell is late of
t 1 t 1 fibro a of unh al d 1 tot type 4; tu
m r of 4 eff t 1 eng r cyst f du to re
t 1 t fibro a of unh al d 1 tot type 4; tu
m r of 4 eff t 1 eng r ryso 241 n rmal
a d p th 1 goal f t fitra p 1 ts 46 co rect
d a f reat f 4 pp t to tree the of the fibro
a 43 treatm of the recules in hild 48
and off the fibro of the fibro of
table f p un fract at d on 1 48 diff tiatio f pain fract ge t l nomal f 5 gia t cell tur a d co f 5 gia t cell tumo of 356 ge ti nothai g aft fixed in 1 h 1 358 m ch nism fosteogenesis g art intend in 1 o 1 358 m ch nusm lostrogenesis 358 cmpo d fractu llo g bo 36t g tio fd phy fad it abb taft res cti n 440 osteosynth sas fd physcal f t re of leg 455 diffe tall dig ms betw nfection of and sa om 545 S ali names [bo s

B dt W erm nn ea ti C bome mg al tum rs d 4 7

Brachial plexu C mpress n f du t hypert phy f t ree processes fise nth ertebra 3 rt rul symp th t my f s ns ry a d circul t ry di turban es n hand d t wo d f axill with i

mplet se ti f oS e hæm rrhaga tra s tio f m e y tem f Gal g absc ss f g 4 6 5 7 int d l urg ry in lt n t bscess f r flati in urg ry in 1 t n t bscess f r flati d g of dis ses f r 93 d g flumb r c ph logr phy in t m rs f r tumors f 96 3 chilepr phy in tons fit tumors for 3 as yoo dool of an ideompess e persit of ore tg sum finar sect to lipe of sold the fit of the fi

m t fi j nes f 5 5 theal gr ph 5 local

f t mors of by determs at a of electrical resist nee of growth 507 d g ons f occlusi of posterior inferior cerebellar arters 508 spinal a d eranial ne ties in breech delt eries 517 S als

parts of b ain

Breast Tumors of m le 17 lymphorther consecuti e to clearing out atilla in cance of go Reclus d a e 200 resection of the acic wall in c rei oma of 200 significa ce of serohamorrhag c r hamorrh gic dis charge from nipple 324 roentgen ray treatme t of ca cer f 324 hopphageg anul ma of 40 econd ary cance of three ye is after g trop, lore t my for gastric cancer 4 8 par lysis of both voc l co ds se dary to malgant tuos of sect I diag

no of c rei om 514

Beech presentation P ophyl ctic e t mal er 8 spinal a i crantal nj nes in d l e y

f 537

Brad Igm t Prim tych ri p thel m of 41 Br ncht Estulæ f og total r mo 1 f l ft lung f r ca in ma 100 err rs in d g osis of f g bod's 3 6 Bon hiecta is Sugi al tratment f 7 grddet

plu 1th racopl ty nd fluse lateral 5 5 Bull and Intchett a I toun U e of ggn dicts 3 B m T sma I sever superficial 161 g 1t t

m t f 459 Brs Relatin f suprap t ll t k h g om of bd lt id 47 a t be I

CECUM C g tlad q ru queranto carco-ppe dicula plea caused by loca lpost al

to alberm 31 lulu i 333 e es lcol bacili infeti n d to st of lby test l ana tomosi 442 S l nde I te t Carsare n sect n Uten es r ft r 33 29 f n ma f both o an dut rv th ! g mt taes n m sos gm d 345 postm t m 439 new type f 439 bd m l hyst t ms nde

æ th 536

morphine scipolina adilical low r cal 53

Calcane m N il th f t 16 p t pophys to fos cal C ic um chloride Lifect of X av m t bol sm f ts It shp to t tm t f \ y t cate n

466 t D g ostic use of rum f m m pt tr ted with oe tg ay 64 nc tg n tml tig) deaci ma m 66 mpot frte f f ca dim ntat n feythoust d gnos er maaddtrm to if dmfom ecu e the transfer of the transfer o of a cmp ed with the fit tyers g 67 Imitat in doth perion he poded by relium cell fith mit ou milite -- num cell i thim to a mile 66 S tzeld 67 cg ditru 34 teatm nt of a c ma who e tg 32 37 teatm nt of a c ma ma ho e tg 32 37 teatgen c ma fm 1 458 sel ti fixat of radium collo dl b te o mbry d n plat cll d gn dt tm t f 471 đ £ 471

a pect fp bl m f 4 C bo d zide D eth n t b f 6 hal t

S ï

f rg m:

Carein ma S Cancer a din mes fo ins and part Carnus See Mn t Carrel Dakin treatment Impro em nt in adiu ting tube

for in supe fenal ounds or Cartil ge Cho droge esis imperfecta-achond onlasia-

cho d odystrophia fet ! 546 Cat ract Experience in wo king with Bar quer in Ba

celona 3 phacoeresis 311 safety flap in ext actio f 312 C tgut Re steriliz tio of 367 Cerebellum Abscess of o See also Bra n

Cerebro pinal fluid Relat n of to el minatio of in 6 imports ce i complete aminatio of n urger

f pi alc d 500 Cheek I p thel m f t e t d v th r dium ne dles 88 Che t M thod f obta ing wid acces t without caus in cond) deformty or section f wall i car ma f breat 200 i dicition a dite hiqu

fo m ; surg ry f a arm chest dhe on 440 t bercul us lympl get and ad its of te cot l p_ces 5 8

Fistulæ f 2

Ch! I Treatme t of se ere hyperemess gra idarum n th Ch læmi N rm lp gm ntary a ds mult neou cholun

Ci le v t ctorny A c lental di a n f common duct in t

de 37 co dit n f c mm n d ct aft de tr st 423 . Chicytta Spec Ir ct of clon of blury ng 15 hone with ut ston 336 dag os s of ch on c 5 4 S of nder G II bladd

Se Gall (e Ch l hth a Chi ten Metab lism of dun g pregna cy and pu pe ium 5

Chila Norm I p gme tary cholæm a with mul t e 15 Ch mocy t copy I t n s injecti f and gora

m in 44 trice 1 cio s of limbs 56

Ci hos s P gm ntary am gns Pu ctu e of 96 techn q e nd r actio

t r 1 lm rounc b chloride ny ct on 3 3 Cl ft pal te Fnd e lt of ur n taphyloplasty acco di g t Lag beck 92 Cl b foot Ope ti for aft r tre tm nt of co ge it 1 55

Clet my Part 1 f meg clon 335 and neph pe Clet my fatt 11 meg c 10m 335 aliu nepn pe y 50 h 0 c nt ore alsynd m i n phropto s 42 Clti Chr c ulcer ti ed by odine 3 ulcerat e 8 9 h c ul e at e in childhood 335

R pe t dr secti f toma h d in p pt c ulc f j ju m 28 surgical t catme t f mega ol n 1 ju m 20 surgical calme t i mega on y 33 can f 13 e e cton of poumal for matg n cy 3 gry of 3 pect 1 at in t bitary ng 35 te hi qui fre tho nd a astomo to of to t mo i t t m t 1 bettucto f 1 man fe tat in 1 if minuto of t erse 12 po ta f 3 7 oe tgenological d agnosis of d

f 334 Se iso I t st ne a d pa t a d d se ses of colo Colst my Ch ge in strut e fitest e in m n a o at dwthf mat on of a tific al anu 31 Colpts Iu mor I mobdity n trich mo as unt eat d

a d tr at d bef e d h ry 349 1 fl e ce f tri
ch m as on pu rperal m b dty 349
C lpo lets s P rt l in g n t lp lap e 39

C mmon d ct S Ble d ct Co run ti Pers t t s ell'

f 394 diff e taldig bet e Prinud ad co j ctist n o t an I fect os 400

Cont a t r Etiology of Dupuytren s 53 treatm nt f ischarmic by free tran pl ntation i muscle 54 r pon ibility of urgeon f is been c 55 Corpus lut um Path | gical anatomy of 222 1 t a-

abdominal hæmorrh ge fr m tuptured with symptoms of acut appendicts 341 Corset Special I r back onditi ns 440

Cough t il x Bronch se pie observ t ons on in t naili e t my under se e al a resthesia ann Coxa plan Ess pual type of 244

Co a v ra Ess ntial a d osteocho dnt s 548 rat Growth 45 C an opharyngeal pouch Roentg nol greal d gno

tumor of 5 S excents Embryology fc ng n tal 89

Crippl Pr bl m of 5 6 Cyrticod ode ocol c f ld Ett logy and importance f o Cystose py Intra en u nject on f ind gocarmine in ch omocystoscopy 144

Cysts Corpe at 1 of me k of tratme t of som forms of d tmo d and th r w th t 1 bloracet c and 66 See als names of rgan and p rt

D \CR\OC\STITIS Tre tm nt facute and cho c with il cannulæ 190

Dainess Class fi ti n of f m standpo t of path logy fu ct l tests d pedagog; 89 labyrinth 315 Yray as adju nt 1 treatm nt f 306 pl a fo internat linvestigati ni t otosci osi a d llied forms of 306 pre nt on of 400 S al Pa

De-eth rizat on by mean f carbon d ride i h l ti

D'reit Aut 354
D'formite Pe thofi acute su gocall hi
children 246 diff ratiation i pranif ctu s congen tal anomals rec natruct e a d rtho-ped su g ry in e ng n t | 557 Dermat tis Li bl ty | ray 472

Day as From in orthoged c 153 important fipa ert br l nj et n fn ocam neuffe tal 338 phr gm fl at n of 21 emb 3 l gy f no t

mut h mi of 4 5 Diaphyses Oste yoth of daphys 1 fractures of 1 s 455 ole of periosteum gn tion of of dult

rabb t after esection 449 Det Fff et fon es ta ceofte thtoc ns o d tte pe ti f g tn le treatm nt aft changes in tooth tructu re ulti g from d fici at

Dobtheria Ant diphtheric serum orul infet o 303 Disease C ll 1 mmun ty nd susceptibl ty t 67 D ert culum Me k ls S d I testin

Danag Bet na in asepti p ti w nd a 1 be ha to of dra nage m t nai 307 tube left in bd m n

D p foot S mpl a d1 is ble brac for 238

Duod num Fis. harmorrhages d e to chron sort tis

mul ting gast od ode lul r 3 cute perfo g ry of ulcers of nd the complication 4 2 6 7 208 teatment I peri rated duodenop in ulc 15 4 d gnossofulc f 27 nj n ofp rez d dast resection of fule 38 tin rephrits i
p) lone a d duodenal betto t o4 p thorn sus
fehr ne ulcer of fom po t f new fin ch o-

anat m c l dispos t n of d od nal bulb 7 septi ity f gastri w il and pengast lymphatics n chron gastroduode l ul 18 2 4 regurntat f om into st mach 2 2, lers f 3 8 perfor ted ulcers of 329 vtern l n t lee f 331 path l g l observati n o ulcer f 4 4 recurrent ul e f 46 hro c ocel on f by mesentene ba i in gastrontos cured by d odenojejunost my second ry to gastro-ente ostomy 419 hernia of a misn m r 4 9 rgical treatment f on resectable ulcer of a o chr c occlusi n of 1 isceroptosis 47 normal forms f duode I can car

Dupuyt en s co tracture Et 1 gy of st

Dysm n t hora 201 Dispensia Chro ic of wom n 4 2

EAR R lations between yeard 3 musto dits thout of em nt of middle on inditions for real teres to a cute suppuration of riddi otite th leste tomata 30; chonic rald chag,
30 % y s adj a t n treatm nt f impa red
h n g 306 mult ple d sta t e o the mbores in th mboohl bt of lateral su u of a rai origin 416 S al Dealnes

Ecl mpe a Search for treatm nt f bas do pathor eus 44 pathog essa i the peuties of pu rperal 23 postpart m, with 1 albumin n 230 see pur postpatt m, while I albumin n 230 sec gur pe I treat d by large doese of m of bh 340 n p t in it or no s constit ni of blood in and lited co dit ns 434 lumbar p; cuture 435 r la I of c n umpt o loxyg n np emancyt 534 Elbow M thod I mobil g a kylosed 55

El ph ntia on para tic 57 I'mbolim Ft l ir fter p tur of mazill ry a trum lung 257 art mal flmbs d to su great treatment

457 Empy m Oi rtrl tumps fter ncomplt reterec t my 4 of them of labyranth with ruptue int bt q fpleu ic ity 40 h n i m i

ca ty ed by skin fl p 5.7
E cephalities mulating c t bd munal co d tio s 406
F c phalography D ngc fl mbar in b a u tumors t

den to Elett the rmocautery tre tment of lu orthor du to 53 tr tm t of gon rhand by h t 53 nd steril ty 420 Endocri e gl nds Relation bet e y t matic st de of ight f ovanes r lation (

oth r dut ru 33 Ent stmy naut pentnt 2
Epiddym T be culou of 5 tm of 543
Epiddym t Sug: I pathol gy f acut and chrone

Lpth 1 m Clages podued by rad m cels of

264 Fp lis Vet stat 398 Erythrocytes Import nce f te f sed m nt t on of

dag os fer iroma in dit rmination of freedom form curr c ft ope t n 66 lue of blood-e ll sedime tat n n org ry 365 I th Co of acute purule t diffuse pent nitis by intra

i sect n f sulphum a ff ct funtra pent

tit i ject n tsuppum v itet imies
tit loj ti of 3 dath! il wing use f
duf se pe t mt o4 d eth rization by m
bo d ide hal in 60 observ ton n
limo rry tilat nd eth t ns n d ring n imo ary t ns n d rung a rathesia 260

Ethm id P it d theat fethm dans 191 empy ma I ethmod I byrinth with rupt h c

Ethyl n otyge anasthes 463 Eunuchord in Recent of 67

E haut n St des n 155 E ophon Rel ton in lyp bops t refract e

1015 495

Relatio betwee der 3 m thod of peenting postoperatine infections of 3 Tournays Eve Relatio between reaction 88 disease of from nasal acce sory s nu in ol ement 88 100 suggestions on embryol gy of congenital crescents 80 movements of in h r t 1 congenital crescents 89 movements of in n r Ci plane 189 empyema of ethimod labytinth with rup-ture into orbit 9 natom: al and X ay study f optic can it pick nerve n lement 191 s b conjuncti ld loc t fery tall 1 n 3 i 1 t a cistem l injecti n 1 lu t c opt c atrophy 3 chronic g rrhoe | post tt a posibl et ol g cal factorine rt i fi mmato of 3 tch q ea d eaction of i tacr al m rc c b chloride j cto (ptic atroph)) 3 3 flammat ry pseudo-tum bt 314 sl 1 l mp m c sc py of l g a a d t

ut 314 silimp mc seppoli g a aft h tologic lie earch dd g 34 at udphthe c rum in infect of 393 mod method vam in ton of 305 lect loc liz to 1 f bact a from 1 fected teeth 393 occ r c lts h t bl type fabnorm lity m ng d sce d t f \ ay d
mice 465 ocular p l 495 r ter ducting naths product n anetes d d m ts of a oc ated movement 1 49 l hz t n of f eign bod m 496 S al parts feyeanleye

disc ses Eyeld New oper to frpt the hote g flat

and tarsus 200 FACE Tr tm nt f pr ge 1 fru fos

roe tgen gr phy of s use of 4
Faces I t tin I r t d f m of o
Fall pian t bes Simpl meth d of t t g p t piant bes Simpl metholoft tgpt 3 f34 devloga sin relt ttls 420 blgil

ch ges ft ak ontgriadiation ce tan gynec logile dt s 43 ope at t tm t i flammat ons of d d ll l r ti ue f p l

tammat ons of d d ll l rt u ef pl 327 S lt (enttal gan gf m thel r d l sot lost os om n gf m thel r d l by obligates de troch ten factit f t d by obligates de troch ten factit f t d by obligates de troch ten factit f t d be obligated by obligates de troch ten factit f d p abd ction 51 blood sel flor e l f a l abd ction 51 blood sel flor e l f a l bet relatio t p th logy 44 ost m ylt l of l w end f t eat d a d ed by ta t phylococ f w end f t eat d a d ed by ta t phylococ m d catin n d p to thap t f d p m death not plan to that the state of the st

ageljnt 42 senight T tm t f h lrvng | gi lt be lsi

b) 503 st ip rifm 1 mp th tm) f per frt gplnt 1 fll geet fit r. 98 elt fit st. bit h fhm 45 occurred ft h rathly to the fit mily considered to the fit mily seed to the fit mily m gdese it it jed m 465 h ll w 549 Case git trat 43 e lbee i

obstetn 1 43 divd o wift 1 g tl mles dfirtt fp

be t time to a teasynthe in ce t 25 Wolff s law in heal ng of 252 treatment of pseudar thros by 1 ject of fractu e serum 252 unusual gas 1 fecti w th compo nd and bridging of nev bone without bone tran plant 252 recent changes in t eatment of 452 treatment f by orthopedic methods 452 treatment of from a dustrial st nd noint 4 2 insuries to peripheral nines sociated ith 554 influence of periphe I e es on he I g of 53 results of treatment f ll wi g comp u d in ci ill fe 55 fr m p r t sta dpoi t 550 S dl names of bo es

I uniculiti Acute 354 F unculo is Treatment ip , ie ff

hæmotherapy in 150

GILINS e lata hmr h m rrh gic trav sation Call bl dd II oscop c fi d gs in dise se of 34 t mo

symptom f di ea e of 35 p esent-d y p ol l m in g dt fecti ns of 5 s gically teated ca e of hæm r h ge of which d ge ed hi 216 tperi

hem rh ge of which d ge el hi 100 typen mil t dy fM iter Ly. test of 337 end result f d ang f 337 mpo ec of p a erteb al 1, 20 ms a soca en di el el al d gnos 338 (10 ms a cos e en di el el al d gnos 338 hi cabd ma l fetton 42 opin on variou of ce f d bile h els 544 surge al h gnos i de e f d bile h els 544 surge al h gnos i de es f d 4, 21 feet of 1 pn ratue com 525 S al gilli ldrd ea es a d .

(Il tone Chilthaif m urg calp tfi Its of urg y f r 36 inte t al occi io due to bl ry calculu 6 in c tion f r and p oced e per t f 2 6 ch lel th 1 w th pecial r fer c to hary i fect nd pan re t compleat n
4 55 recur t h lelith is 423 p th g c i
of h l l tha is 5 f

Lat r Itsa J f able esult fpenartenal g Latr 1832; able esuit spenarterial
ympath c my a l ppl c t n of this per t on t
a tenoscl tic 4 path l gic a at my of d nal
pontan 5 146 blood hang in pont n u 266
C e i n g gl Ott med complict g per t n

Catre t toms of Itnhp fjeju alukrt _ se of un b s b ll tu es 4 o

Cto test liact lost pteham rrh g f 2 t dy f ooc cae pst g impi m 23 t lpa uper alm 1 y tret jd n feet n f mu sa with tret e of 1 j n uree foperati o 50

tr my t ms f r chr ic ulcer of t mach o8 tr my t my t refer to uncer or t mach on tal tr. P. I pase of tr ted by p full colpoel so. I the between the d glad and fm. I of the tellor the dord r. I fm. I pellor rg. and sympt m. rd namly derel pr. vi. c.

p i pel fw men 341

lgum C ral e rosteot m ftbam 360 Gu rum Cnl odet my oftbar 360 id gos f 83 ugeltrat

ment f by me | fied I it LaCrag tech q 88 n th ju friel t my in 31 cut gl com 497 nd t 1 497 Cortisch 1 1n test 7 1 497 I ophthalm c

hidhood athuu i mai tat 7 mm matou coll d a d ophth lm c 7 t tal a d n tr g ou m t bol m Coetsch d Intest f 7

ch cal st dy [92] humted outbreak of cut is blaren shome 93 pathop me, graftcance fich nees in nervous syst mi. B sedow suise se tool internit in nervous syst mi. B sedow suise se tool internit probable in a server of thyroid 192 prisals in in season server of the probable in the prisals in in season server of the prisals in the prisals in season server of the prisals in season sea

Genorities within a du to tried by nir articul injecto [1500 occus serum n nl ion in a doos cac of tried in public dirity and personal management of the service of the ser

f and is complicate as 447 it it ment of g a rhot lendocetycut by h t 53 p t t tu of acc e and se oth r py h 44 Cynecology Claucaist dies in wanalg c1 of t incal

d general great pactice 43 the ching figure cologs
44

HEMATIMUSIS du to fissue hæm rhages fim
chin ott 23

Hæmatometra nd ju't cal bmu s fib td 2 Hæm h om tos Pigra tary 17th 15 Hæmophila Urological pe ts f 238 Hæm p hag T tm nt of by or tgen 17ad ti n f

pl n 53 tud [hay t) d t 55 3 as am s to gans dparts Hand Eti 1gy of Dup j t h s contra t r 53 ceatr c s of limbs 56 upp t t nowyn vits of ff m isel s of 350 tube cubo s t nowyno tias f

35 teatm tofa ute prim ry infectio f 45 Hay f + Et | gy d treatment f 307

II d Actinomy cosis f 267
Hel th py Treatment f pent al t berculos by
Laparot mv a d oz
H mian p ...ol clinc l feat r in untre ted se nd ry

syphi 3 4
Hep toduod n llg m nt Chro i t ru. du t t bercu
lo s of glands f 38

If m k to cr al inca c r t n of retroperational 3
peration of ringuin d r local with
transloom l 1 1 recurring found after
operator tre truent so 4 of retail alw li

operate trement of a constant of a operate of the operation of the operate of the operate of the operate of the operation of the operate of t

Hip Course of P thes disease comprish the Keehle's disease 3 treatment it trace polar fast e of b Whitman method 55 type lore is no y ture fostecchondris difmas coazijenus tenus tenus thing field and blander disco chone no the culous arthritis of no greens 545 po ta ous

with night end and induction good and office the culous arthritis of night general 45 per tall office the culous arthritis of night general tall office the culous arthritis of the culous arthritis o

Hum ru Isol ted fract res of c nd l f 55 fra t r f tern l'condyle f 30 l t r c me tot osacona of 41 d cap tat nof with intra cod di locati n f displiys 8 252 relaxas on of sloulder following bon mjury 350

Hydr mn os icut treat d by abd m al pu ctu e ith Out interrupt n f p cg ncy 2 flect f on lf

expectancy f hild 344
Hyd ocephal he ope them thou fit timent of the no internal in hildrin 506

Hid on phos Enorms mulating oar nicht 45 bid o-ur tir and a fig nit se ndary fin hog i plapse of tru nd bid i 442

Hydro- etc d hyd n phros a f q nt ec dary find ng; p lap e f terus a d bladd r 412

Hype mes gr darum T atm t i se re with chi ral 2 6
Hyp rthyroid sm Ou 1 e test in 94 \ tay therapy in

trie 95

Hypophys al xt act Coagul t g ct 1 59 inject s
of p tuitary at act in obst trics 227 in thod eff is

of p tuitary, at act in obst trice 227 in thod eff is a d da g rs of adm n t n g pitu trin in obst t cs 346 of pituitary e tract in labor 43 a tio f p tu t in o 1 lated min mapp nd 523

p tut in 0 1 lated rmof rm app nd 523 Hypophys 3 liam r h ge f in w man 1th gone h-1 td to coph ctomy of n ton f pt tay gl nd 47 flet f dumon pt tay gl nd of rat

Hyste ton Treaton I cervoor trie c c by foll ig full the property of the full ig full mither p survey grant fit to full ig full the p survey grant fit to full ig further gal fixt foll wing 206 at p full in the time to furth is d to about g

i tre time t of p rit its d to abort 5

1 St matt mpl yme t f Mik i cz dra 1, n i r
canc r i terine ervir 427

LIOCECH vie Cinical nalysis of incompet n e

I m Co getl d cqrddfmuty inlocatopendicul piaca ca ed by sleocet l postaonal
t oes S an e of la rend of arr ll intesta
t et ed by d p adott rapy aft rilocagnon lanstomo S lymph t vels ad gl is of a d
im trambeuler ef s r

Il s Du tod f t n mesent ty 27 sp tc 48

Immun y S pp es on of du ed t t n plant de n f
by targe dos f l e 1 66 e llular d u pf
bulty to dise 67 l tr f loc l mmuniz toon

t g i 460 Immu t sfu n 47 Ind 800 rmi 4s f t i p rm bitty test of h er

Id in i jne tit fiet of ria dir imnt

by k as 6
If ct n R l t | f local mm zatio t g n ral
mm n t 460 re t m as f t | hr c foc | 523

blood dim net test d d go s s rgi l

259
I trum t File; i ng lob li traiz ton i

I trum t Files f ng lob li transton :
s gical 50
I test ne \r t f 1 t n 1 first t g s 6 submeson

ten tranglat f mall d t b m lin tin of resentery y lickles deculm a tlig call it beauti tho la nee lio nd i mall t at d by deep ad the rapy afte loo gan id st most 3 netstimal are a d form if see 9 hangs n to tu of i man a og ted

with from the of the fit of the state of the

kid ey fecti n 138 rl ti nl i bet een tomach and with reference to I turban s in foll wing and with reference to I turban s in foll wind, oper 1 s n founch oo e 1 n 1 k a nod urg cal a peet 1 a m 1 of rat n 2 o h me 1 m 1 of 2 til abd n 1 eet s a 1 sub-ut n us in ses I tle er 2 7 r latin of night del abdom 1 pa t night 1 d eeg d c 1 2 3 b-bruct of 33 ks n 1 prod edity radat n 466 t be cul usul r t nof

521 timpo ty e tr lido al nat f throgh the 523 5 / t trointet nal trot pots f test l t talfse ses

Intu seert n cl liboud 6 7

I he Chrocul ratecit ie Chrocul rateclt iby a fitt on the flaspop to talm tiput i ithe fill limgir thig lit fas diftin of nosther togit lbs: fftf test all t 50

Ind ctoms \ w tech ique [r | L] m 30

Idtas glena 497 In Declt fred t i pefully f 49 Ama b dist to mah I gy of a o

JUNDICF Chamatery datable to late glad is in pated and nllg mat 3 nl flym phatic in bsorpt is bliggmatimal e rly b tru t 5 dpeltblytt Ing 6 m.lmll scteru of spi ochret i nga

f dissoc at diet ru 3 J jun m Repe ted esc t 1 m

Jum Repeted set Itmal tm 1
col in pertit in 18 mapt in diles
of the pertit in 18 mapt in diles
of the pertit in 18 mapt in diles
of the pertit in 18 mapt in 18 mapt in 18
Jis Trainmant il 1 coll mand if 54
of trainmant il 1 coll mand if 54
of the pertit in 18 mand in 18
Jacal proper diles to the pertit in 18
Jacal proper diles t d aes f 249 ti S Is name f j t

KLRATITIS Roentg n , tr tme t f int tt 1

t malacı 496 g) 45 t be kd ys D gnos if t E cul sofblii 140 lydag losof 46 that foltming lates 4 t se fir t bef e ob-47 e plat y pos f tomy the di 47 duble medby p t ft be 1 45 p op determ to f If t 6 multimut 36 ft fsed 31 tm t fm t d 1 ft 27 emplicing tratt) 4 milte lifsed d II d l m. li rm t natnf 3f in the state of th fmtetf l tsts 38 lt fr38 l hth f fbo It I l díct goust nil t f 30 gr fb a lmb ppr h 4 t tm t f t h pheet m is d fo t t l 4 bd mu l t f t h phectmy 4 bd mu l t s fth ma 7 pye of IL test 23 dtr t m nt of t

.

imno tance f v scul r neoform ti n 1 renorenal sutu e 234 post perat ve hæmorrhag from 235 import nee of p ra e teb al inject o of o ocaine in differ nti ld g 338 treatm nt of pyelitis by ur t r l c thete at on and i llation of pelvis of 3 3 f n t lda o 18 w thr pect to bod ly r ac t n 353 f net al tests in p rpe ium 430 poly c) tie nd m goe le in th' e consecutive infa t 440 ur ter l r fl x in po te ki iney in d eases 442 chr m e t e al y d me with nei h pt is 442 chr ni e 1 e a 1 y 0 me with nep u pi so curred by 1 ct my and nepho perty 442 re estcal col ni 11 infect n du 1 carcal sit c ed by 1 ti 1 l ni m s 442 l results f ephrec 1 mi frith r l 443 l sults f p ratt i cleulus 443 acc lent a 1 mpl cat m all leu el tib r l is of 443 137. 6 malf rm

f 530 di gn a I t at ent fe leuli 530 f 530 dt gn a it al ent te keuli 539 by papil m of pliss of 540 S is kad ey ess logerati a iU 75 tret lel t nol supr pat lia b a to 47 pathol lib fl ed 45 t platati of t ni [25]

i ds bit f 357 i tern l de ng m nts f 540

LABOK Chinc I tud f n analy (m atrik) i ol tet ala d gynecol ic l i rete 43 c pol am nem riph e si mu cosi i 130 al e f sacral block asthesi i 131 t ou ile) gen nd t s comb ed methods fi lucing ob t tric l

da asth si 2 6 p 1 l s by synerg to m thods 2 7 u e f p tut ry extract in 7 346 eternal sion 8 m ch ni m of seprt n of plc ta d membae d ng Suuulacci d tdngdhery at term 28 dist cade t ci atn I stenos of cervit follow gi traceri ci ppl cation I r d m 345 med ile m ob tetro 34' r lat n f rupt of ticul t on of pel as nd m ci n m del ry 347 e mplete ci c la avulsi n of potot malad n g 348 occiput post nor 438 actt n f fet lautoly 5 n me ha 1 m of 536

La hrym lp sag s Dl tation and ste oi of 90
Lamm eet my R lis f for c mp 1 of p 1 cord
98 ent alpl t rin ldf r e ca es of 500 La yngect my P esent t chn que f and v nou method

sed 195 Lay git Subd on ft ber lus and it te tment ly t h ft lizat 41

I ryn, fissure T clnq e f 3 8 Laryn T be c l 1 f 6 c) ts f 6 pa m ol 194 ca

f 3 8 504 l ryng al p 1 h ndritt due t tge r v tr atm t 4 r t e tme t of rhi l ryn the rytiatm talite the toful lyne [g] thebe cut by F se left bath 503.

Leg sympathe tomy for ules f of surp al treatment of rm to q ene of philut of 133 mp tal in f 360 pr gnos diet met lifetus f

Le S be ju its liloc to of es tall e 31 rla

tn ilq f tn and bsorpti fervst lli I nt cul opacit s 497 as e with Gullstr d lit I mp a d rineal microsc pe 497 Luc pl Labucc 1 92

Le o rhoea I thology and treatment of hr 10 224 elect therm auters tre tm nt of d e to e docer le ulose te t fli er functi n 214

Lithol p xy N wp ed ef 446
Li I be it trach! rphthale n te t of f net id goc mue sf t i perme blity te t f of 114 t m f 5 6l flymplat c in absorpt o of bile p gment from in early obstructive jaundice is function I during p egna cy i o le vilose test fir efficiency of and in estigation of hepatic co d t on a premancy 2 4 operation for trop al becreece of in Baku I) trict 15 p gment ry ci rhosi 215 abd mi al contu ions and ubcut cous inj ce visc r 217 influ nce of on phe is ith nenhtha le n excretion 231 posti n [1 7 nd chronic abdomin I infect on 41

L gols soluti n Use of in urgical tuberculos 159 bactericital pow r of 2 9 pre-operative t eatment of patients with exophth im got with sor

lumba pu cture in e lamp 1 435

Lung Thoracopl ty in t berculo fur roents logs f ga g ne of 8 m nagem at of pregnant woman with tube culosis of 4 10 present post n
f su gical tr atm t of tube c los f oo total
remo al fleft f r bron hial e rein ma roo inci d nee and diagnosis of primary a ct ma of oo significa e a d mechani m of p od eti n of p l monary findings f ll a g i trapent neal nd intra monary manage in Tight trajects mean no musa pleut high toon of cellular and in it him has a marriag pregnancy p t minon. I tube culvs i 9 amneb assol 200 at it la embol millo in perate a d in nes 1 257 b ry in n pul monary ventilato and threa and an ana thes a 26 amulat n of acta e tuberculosa pa les maxill ry sn tis 317 a ci om fl gual thyroid thim tastales 300 min and ment I the racio tumors 35 relation I para sal sinus I sea e to infecti I 398 b-ces I 54 n ces ity f early operat n in mal gna i tum s 6 deep roentgen the apy of neopl sta m t taxes i

516 Seaf of fun diseases tod gration Lymph gland Effect of Vray in his log of c es flymph de opaths 59 topogr phy i gu i d e t n i iliac i mph nodes an i t chinq e i xti nat n 60 of sein m nd leum ss mphy sema of f mesent ry ni lant 45 treatmet of tube cul u 4 % t ber ul u lymph neet a d dent finte ost l pa es, 518 ft. Lymph essels, Rôle f n absorpt n of bl p m t from

h en arl obstruiti jund e 15 ol 2 fjeju madilum 157 l mph ngit is of tru

I neck 400 obstruct n f by scar 559 I ymphane us Tuberculor and a le it fat cott

paces 5 5 Lymphoma R d ographic tudy of mal gna t 305 Lymph trhe a co secuti e t clear gout av lla of brea t oo

Lymphotateom Hodgk disease 1 58 MICHESIUM Inhat Femat 1 tt u o t t M 1 r bon

on T to referre tres 1453

Diff t 1 ingnor of sur 1 if mani
it direction M lan i t

M rriage a d tuberculou 29

Matted Irs tealpost) prog for a I s tgety of 470 Mast al tes W tho t el na I diagnos s with pecual referen e t urt spret I nel & rav p ctu es 307

Mattress New t pe of particularly a lapted i cases i rectal's contin r 400

Mediasthrum T m 1 67 so-called sept m 1 of dog
1 relation t p motherax i ma 3 3

Medical tes hing I' rme t in of medical curn ulum by present e teaching to Megacolon Singic I treatme to I so partial erlect m

Melana di e to fissure hamorth ges i ori chronic sort ta

Melani 260 Mela oma 266

M la on 266

Militze Ly n test Fape m nt I tudy f are Meni ges Cerebrom ngeal tumors and Bord t Wa se

mann fea tron 407

Meningtus Sept C 317
Meningtus 1 ty ; fadines i

the orbiguatest litter to a thrap 30

pounds a g northers and it compl ation 44 M senters lie 1 c to d fe to in 27 trangul tion of sm II ntests ed t atn rm lansertion I 27 sas-cul r occlu. n I 456 emphysema I I mph gland

fininf t 48

Mesos gmod Casa e n secti n i r care n ma I both ov r s d ut e cerv v ith m taslases in, 345 Metatarsophala geal i nt C roe I kothi rs dise se section supports get i fit to the i world for the a dP fitted use of six type call we of section d as how he fit to the fit is the fitted with the fitted as a fitted with the fitted fitted as a fitted with the fitted fitted fitted for the fitted fitted fitted fitted for the fitted fitted

Muth I pist fection I 5 1 cogl kia? c? M cosa D I feet of that tu fit la one a

t n. o ga tro-int t altract 520

Muscles Teatment I ischem c tra tu b I re
tra pl ntat of 54 d ect rotrat o para fyzer Ino

NAMES Result of t aim riof ascult with rad m seck C Full cit of p is moreon of a

Veg o I roct | gic p cul ntes 1 mg heret my Fif t exposer ikles on the bef in the line alanced relitable reliable. n th 47 treatm t furet r f tuber u cou 34 + 1 + 11 of 1

plah a asthesa in t berculos 443 po t I zit de ricof post bra ches I spinal erces 1 son of I mbar in econ

Yephrit Toxic i pylene did ode alabstruction 4 rme I treatm t of 1 Sephrol this is Ope to und r local meitheus fr i later 1 443

tump fich a truce In bn coadte dmme n nephnepton 44 Sephr 1 tos Ch t

hephritos (h. t. e. l. yn home with 412 hephritos Tech 4 of f. ling riegul tinca 4 No Roe t n fragn w I turn is I witton

s for to finger futures furcion, upply fall made 13 flectuation and operation 1 years thereto no nessel florts to lat utu futura the two terms of the transfer for the transfer florts of the transfer florts for the transfer florts for the transfer florts for the transfer florts florts for the transfer florts florts for the transfer florts flort by a recound of not coult for the file of entres it after pendemo 1 ympathect mof tre f

frat splate ketflow section I scustic of That spis to tertum section states you fle of ag the in rigid treatment of a tree u too tration (case) [streat plant u too tration (case) [streat plant u too tration (case) [streat plant u too may come of the streat of the streatment of the strea th tes so

Amet topt a uso I franci to an purule tit med the pec f fe

i 33

hæm rehag c

ence to invol ement of cr mal nerves 315 1 nerva tion of intra abdominal dhe o 339 relationship of cryscal symp thetic to that d 402 results of a a tomosis of 408 points of e tande ure of poste n bra ches of p inerve n flumbarine ion n or chesor p inerve n immorrance ion for nephrect my 443 e perum ntala definical con trib ti son tra pl tat nof 5 o late ulna nerve p lsy 5 to r mote s lts f p ratio s for injuries of peripheral nerves 5 t ne rolog cal a d su gical bserv t ns on neu osu gery 13 ce ta obs rva tions on innervat n f uteru 53 fl c of per wheral nerves on he long of fract es 553 1 1 ries to peripher I nerves associated with fract 554 Veryous system P th g n c s g inc ce of ch ges i

in Basedow s dise e 196

he ralgia Present tre tment of trigem n 1 or Neunt Retrobulb r associated 1th d e ses of n sal ccessory sinuses tos ontic and retinochor id ti

sec nd ry to accessory nasal s nus di ease 408 he born Bit rais pourati e pa ottsin i immediate correction f cra ald p es. s 3 iso agglut s n blood of 2 7 effect be if d fa is of feed ng placental extr t to mother 35 1 tracr

birth i ries 405 physiologic llos f weight i nd ts control 440

vicotin Amblyop d t ab se f 393 pple Sgnific nee of ser hæm rrh g c

disch tg f om 324 trous oude Acc dents f om æsthesi induced with 6

f r analyes hst trics

ose Rad og aphy f nue ffe 4 y tem ma lestati of uppur ti e disea e in i use 5 oc 1 d sease from accessory s l m nt 83 n e of in dise se f essory n < 9 c t of o routine X ay e ami tion f n e fract by four p ject 9 ocul c mpl c t of s u disea es 190 pos t e id tific ti n of ph n d nd thm d si uses 19 f t la mbol maft p c t e of m ull ry ntrum g empyem of ethm id labyri the inthruptu to bt 9 d form ties of syphilte 316 mm d te nd l te tre tm nt of fret es f 36 mult feet plm ay t berculosis by p l m ull ry si u iti 3 7 r tr b lb rn rit oc t d th d f ccessory i u es 305 asthm d fecti ns of acce cory 307 dse t plm n ty i fe t s dse se fa ts a d relation f 308 fats ad young tetm t of s chlden 398 tac t tratme tof malgn ntt m rs f ppe resp at ry tract 3 9 b lgt lt tment of a com of upp resp t rypa sag 399 pt rst nd retinochor d tis se nd y to r) u d sea 498 t ol gy a d tre tme t f bs esses of ptum 500 end asal urgery H il 1 500 tr tm t f " ı by F l ght b th 503

ocam Praerth I it nof dagnos 338 OBSTETRICS N w l_ke le f 43 cral nerv block næsthes i 3 teaching of

440 tr d f mod m 44 Esophag plasty New m thod f nteth acal 325 ph gus Pe led py c dip sm 18 pharyngo cesoph geld t cul 8 tr n p lmo ary Esoph gus Pe led xpo e f g c cinom of g vpenm tallg tion i wall of t ch qu of d t n ther n tch qu of d t n ther py

of care m f 3 5 S pores so f i d ed mmun ty to t anspl ted O1 S ppres to fle 66 oetg polgcl cancer by 1 rg d fod d 6 vol t n by me

Olecr non Mob liz to n in screwed fractures of 242 Oophorectomy Fatal status epilepticus in woman with gotter subjected to q

Oper tion Pre-operati e determination of renal funct on 6 rel t e mer ts of on round I gaments for r troversi n f ut ru and p ocedure f r i crea ing scope der Adam 46

Ophth Im plegna Co ge ital total bilate al 189 Orb t Empyema f ethmoid labyrinth with ruptu e into

101 infl mmators pseudo-tum r of 11 Os calcis S C lean m

O teitis Del rma a d to cler 1 90 gene alied fb osa withp thy o d tumor and metast t ccalcifica to 240 be ign cysts due t centr l fibrosa of

u healed latent typ 240 no cystic fibrosa in

30 g persons 545 Ot arth its Oper tile tr atment of 550

O teo h dritts Typic I roe tgen ray p cture of delo m n c z j enil s t k n with h p fle ed and ab-ducted 360 sential co vara and 548

Osteogenesis Mech m of 3 8

Ost my litts Of kull 1 acute 1 spine 43 of lower e d f femur cured by ant t phylococcus med ca t n nd p cture with aspir t n of deep bace 251 fi d gs of spirochæta p il da in by d k field

ill min ti n 545 subp joste I resect on of long bo es 1 550 O teos r ma I erioste l n lover nd of femur 53 late

O teos r ma 1 ernoste 1 n ioi er no oi iemur 53 tate
ecu rent after r d th apy 41 d ffere tail d ag
sbet een fect o of bone d 545 off mur 548
Ot 1 my H ge 54 malu ted subt och tene f a ture

off m rt e ted by oblique 151 c rvil e r of t b g nu i lgum and g u i r m 360

Ot t med Complicating oper t so gassernan gang lion 3 u usu form of ten on 1 purul nt with f ence t invol m int of cran al nerves 315 cute supp tre f t 306 Ot cle on O test d f rm ns a d oo ple for int

n t lin tig ton int and allied fo ms of de f nes 306

13 Localizat n e tract p ti l punfcat n d act n f v a h mone te tan mals 30 g ne s fdmdcyt of 4 om s hydr eph o mulating cyst of 45 gl nd f int m l secr ti n of h man 7 b later icy t cep th i ma i c ed by e t matin 127 sar ma of th m ltiple m tas ta s cu ed by oe tgen ther py after surgery 127 intraperit al hæm h g of o anan origin 127 intraperi at mem mg on o alian origin 177
341 filton fit thyr di ats 68 cessar ans c
tio f c rein ma of both v n sa d tert e rova
while mast e i mesosgmod 345 mf eted
cyt f mem c t g the tim 478 dnevl
rgan el ton t fully 420 b 1 gical changes
fler we k oc tgen rad i 1 certain give log ac I c nd to s 432 h t I go cha g n dun g p gn cy 433 pe ati treatm t fi fi mmati f d and cell la t u of pl s 532 w ght f in el ton to ther gl ds fi tral ert n d ut ru 53 Seals Gental g s

PAIN \ cer l 1 upper alm nt ryt ct 2 3 clat n f ght s ded abdoms al t nght s ded d se se 2 8 P am ben oc a cd Rel ti shp bet er chem cal structu e a d loc l asthetic ff ct f N kyliz d

structu e a d no: le clester of soi.
le clester of soi.
Pan e Inju a f dunng and aft r es et n of duode um f ulcer 38 c nt ss of and false trau
the nr f8 abdomn al matic cysts 118 p nc e t c th n 18 abdom: al ntus: s and s bcutan o s 1 pu e of 1 cera 217 p cratec mpl to s f chollth 42 525

om 38 P raffin II st logi cha ges in human ti sue aft i j c

t nof 68

Pa alysis Operation for t hef of of P tt s rl case tre tm t of localized by graft; g of de d tendone 149 di ect n urotizat on of paralyzed muscles 199 so-c ll d obstetrical f arm 4 n w oper tive procedure to treatment of son tic ero

thyr dgl ds Mal gnant adenoma of 8 gen rali ed st ti fbrosa with t m r of a d meta tatic cal fic to n 24 1 I tion to s gery 5 2 Par tid T eatm nt of fist læ of by e ervation of gla d z

Parotit: Blate al suppu ati e in ewborn i post operat 1 fectiv 300

Patella T n.pl tation f of c da e with surround ne I g ments aft r fixat on in alcoh I sa Pl m try Roentgen g ph c 44

Pel is End r ults in factu f 54 pel 10 finds gs n toucg t 3 9 rupt e of ricultin fadit m of deli ery 347

Periart II I symb th ctomy See Sympatheet my P r colitis Use i sero s grafts ft r em valof m mb a s

m m mt us and pens gmoid tis o8 Periosteum Rôl of n reg n rat on of d physes of a lit abb t afte e ti n 440

Pens gmodit Use I era grafts fite remo al I membra es n memb u os P nt um Teatment of tube cul s f by l pa tomy

and hel th rans r fle ts f nt apent e l in ctios f ther 13 nt pento ealta fu on n nf ts 364

Priomiti Cur of acut prul nt diff by at pen t all jecto's fulph n eth r urgic l treat m nt fdff se o quest n of ent ostomy in cut 20 blary 3 dathf llo vingu cof th rindiffuse 04 localized ght lia without appendent s 2 2 gm | byst ectomy in tr atme t of d t abor to n 25 t berculous a d tat catment 50 d ffu e fat 1 s ppu t ng in roenty tre tment f fb myoma f ut rus 5

Phaco-e esis 3 experi nces in w rking 1th Barraq r 1 B Ιŏ

Pharynx Pharyngo cesoph g al di rt cul ran i prop gato ft mors i 300 Phe lulph ephthale I flen i ler ne ti

f 21 t tof en liunct on by combin ton of I and 231 kaln at Ph n lt trachlorphthale n t t f h e functi n Phi b tis Surg al t eatm t of emote o sequen es of

f 1 g 53 Phys ology Relation of surgery a d 69 Phys oth apy 469 d partm nts f in g rai 65 in ce t in orthopedi co diti n 564 ral hosp t i

Physo t gmi e Actio of a isol ted v millorm ppe dx 523 Pul rm bo e Tract e f 453

Patu t ry body S Hypophysis 11 centa Man ale t ct [3 m cha ism [sep d membran s during d I ry 2 8 t at m t f ete to of by actin it umbdi al in 229 farcts of 345 r l t n hip f te placental apoplexy t abl to pla nts: 346 brupt place tse 347 m th d of proc d em ret ti n fm mbranes d sec t n f mul 348 relat n betw n ffect on brea t fed infa to f feeding e t t f uteroplac t l mothers 35 di nteg ton of

popl xy 435 In ! r ce p egnan ie 435 Il c nta præ treatm nt of 53

Pleu a S gasti a e and mechanism of prod ct f pul mon ry findings f llow ng ntrapleu I injection of ell la and in it el ments I empyema I pleu al cavity 41 intraple altens n ere P eumectomy w th c ut v oo

Pneum persone in Clinical esults of 2 8 Prie moth x Eff cts f pe 5 5 so-called m diastinal eptum fd g n r lat n to problem of in man 5 5

P toms lite Early surgical treatm t of ac te 2 hype t m soluti ns i serum t e tm nt i spen m tal 4 7 t atm t of nfant le pa alves aft

arute stage 549
Po t re W r of Shermagton on physology 49 effects of on relaxato u d a æsth si 562

Pr gna cv Changes 1 ut r e vessels dun g 42 t e t ment of tubercul u p egn at w ma 4 129 t be-abd munal e tr t rine of mine mo th 43 ect pic ge tation foe four mo the 43 hepat c functi a d ring 20 2 4 pathol ev and clin cal sympt me n ectop 130 ch lestenn m t bolism dunne 2 t py lo phrit my l at g treat d by int enou 225 and cat o s to treatme t of s e pvel ephrosis mpl cating 225 ruptu ed tub 1 with coex t nt ut rin 26 diae fet aduntt trute 6 myom t f t ru a d 226 diagnosa fi tra t rine c mph ated by throd 26 tr tm t l co hyper mesis gra id rum with chi r 1 26 b temporal c t cu 1 fild f 1 1 3 3 w ght in 343 ch m cal cha ges in t zimia of 343 se ere nzmi duri g treated by epeated blood tra fu ympt m tripture ft be n vtra ut cine 343 d ubl ut rus 344 col bacillu i fect n funnary tr tand v gin d ring 344 m dile me b t t 346 pycht; f 353 ten fobrom simul t ur rupt d 426 Abd h ld n cti 433 hit l gae

in nesduig 433 d tic t l period 433 with tra ...ato f blood d lbumi n 433 toxem as of in Gl gow 434 f blood plac t præ ia in í r su essu p gnanci 43 e tra ute in at t rm w thì ng ch li 436 a alys f 400 cales of e taut nn 436 cons mpt on f yg n n and its t lat nsh p t eclampsia 534 tems I from tan point of chroni 5 p s

etil califet r 534 ealy o ha Pesby pa R lato i ph n in a ph ra in a h t r fracti e errors 495 contain Bee h t t d by prophylact e ternal Presentatio

28 ers gery of Postate Cace d rad um 344 54

Protat t my Ch of permeal d prapub 5 m rbd ti of 43
Pro tat us Chon g hor
i fi mmat n f ye 312 hor I set of great f ct

iso-kin-graft g 56 Prime tuzto Pseud rtbros a Tr atm t f by 1 jet n f fract te

Pt 1 N w pe tinfr with shirtening of l t and trss og Pu rp num, Suppurat arthritis i ymphys ap bi dur g 44 nf ct ns in 33 340 diagn is d pr phy I so off er 133 th rap ut m s to mb t 33 peis au ed by bacillu influ n æ 34 ect the rapy n i t s 134 23 ch lesten m t bolism d ring 21 thine of postpartum c

o teptocore spitesma 3 p thos sas and the pe til felmpsia 23 clamps the ted th m riphine 3 340 m b dity in tri hom n col pt unit ted a d tre ted bel d l e 340 use

to ontinuous drp 1 rigat of 35 u gic letre timent of infect 350 funct all t sts of k dney in 439 fe er treated by cu ttage a d co t u iring tion 440 fe er caus d by syph l s 537

Pupils Congenital miosi o pinhol de to de elopm t l faults of dilator mu cle 88 Purpur hæmorrhagia Splenectoms fo cho c th om

boeytonenic 156

Pychitis Medical tre tme t f 231 treatme t f by a d in t llati f kidney ureteral cathete izat n of unne f ll wing

pel is 353 of preg a cy 353
Pyelog aphy Tempo ary pp n of urine f ll wing
do bl 144 a t pt cm d um f 44
I) lo phriti D bl te c mplc ted by 4 c m

ploat gp gn cy Pylo phr I doat frtr tment of complication pġ cyżs

Tre tment of in s ppu ati g Procy e w unds 50 I sodermatiti Autohæmoth apy 1 159

Pyuna So-called a ept c e 1 46 OUININE t hyp there d m ou

R CHITIS Rest f 66 prin f d fmt

Rad thorn maket of j t 64 Rad m I perble pthel m f ck f t u d frmr th n t n j r by urett ge nd 30 t t m n t of e e euterme hæm rhage by 30 t e tm t f a thritid s with high dies of ma t 5 teated by fite e lusion of dees d int st al g m t 1 3 tetm t fc c fers futerus
23 r lt utne filr mat teted with 1 3
ca cinoma f the c t at d with 4 g ry 4 g ry d comb d t atm nt f er futeru te tm t fc rs o-utenne cancer by hyst t my fllowing tre tment 1th 5 teatm t f bl c c f c bef e d use f can er f p t t nd 44 lat e l f d p th apy 63 new m thods er 66 study of act of m t d eman ti intr tm t f edrad t nd eson c c omat f t ne ervix 2 fll p lt f e f ut n a eated with 2 ca es f nefl cacy of e of 22 f ll t eated with 2 body of ut rus b! gr al prin ples i diat the 1y 26 limit t nrd the apy f ner 26 bological poi ts of ttack f 64 g mma v dos g f 64 ch pod db in ll f epth lom ta 64 ct n fb n d de dthy rod in ma 39 ch qe f dat ch p) f cs phage l i ma 2 c i mags 335 s batt t difpt tt 34 dyst dutngdts mtiti feers fit im t the ce 345 dy too d t tril ten sicre fill wig by c and ne plast c cell nd it importance i diagno and treatment I cancer 471 tre tme t of enla ged thymus with 5 7 meth ds of impro g ext mal appl cat of fo d p the apy 563 repo t of \ ay and prot ct n comm tt e 563 e aluatio of in ca cer son

Radius Un s al gas fect on with compou d f acture and bridgi g of n bo tho t bone transplant 252 functional mobilization t atment of typical fractue of 253 b late al co g nital synostos s f upp pat of a dul a 546 Reclus d as oo

Rect c l t ັເ hem bags t ated 1th

Rect clt S hem ham tare un un them ham hape rimof D f ad L Hello 524 R ctum Op at tarm tofp lape f 3 c ng tl stretu f hld 3 bled gfm 33 c cula t n f gm d ctl gm t 1 techniq e f bdomin per clet up t n f b gm stri tu f a neer f t e ted by r d m ther py ft e cluson f d se sed inte ti l egm t 113 tube culosis of 113 p octol gic pecul nt f neg 213 new ope at o fo a o ect 1 fistul a rd m th apy n ca ci ma of 335 re ect n f ca cer f by hy tere t my 428 w typ f mattres particu l rly d pted f r e of e tal co tinenc 460

f cto in ch nic foc linfe t n s a at I up ments with r g rd to 1 238

R partin Eff t fblt leriel ympathect my upc 14 Rep ato y tact luto acci t n adum nd Vry

ntr tme t fm lgna t tum f pp r 300 Venou thr mbo of 498 cln 1s gnifi ce Rtn hls 498

Rt cho dt Opte ustis d sec dry to es ry nas I sinus d e 408

Rh phyma Case of 4

Rhin rrhoe Tr umat c bopin I de to peni h f a ten polo g tion of right 1 ter 1 tri 1 405
Rib Fr t f a d th 1 q læ 254 re 1 nc l and

hypertr phy of tr n ers ce vi l p ocesses 546 e tg ay Sum lati n d pa ly is of animal e !!

Roe tg ay Sum latin d pa 13 15 01 annual 1 b) 63 tetme t f 1 to at n d to 65 37 ff ct f c agul t f blood 157 tonof 16 n ct 1 caguit 1 blood 157 tonol 16 ft befc erg fisi ocul t dinto atr t dwth 6 ff ct of n bo 24 st ndad atom of 359 w tercool d high larget be 360 c e of act nof n i ng clis 464 ntur fact nof 465 occurren e of tw he t bi typ s of abn m ity lt im teld th 465 b of blood tema infled by 466 m gd sce l t t n l in d truct n of m osal epith hum of mall tet e by 466 um lat eeff ct mmat o f tposures by 400 um ist een cr mmato r sposures t spen at any g ter 1 466 p th f be mod h d ay 1 l g k m 466 t till to a d cute t u t n p od c d by n ant y of m 1 466 ff ct f on m t bolsm fc le m hlonde nd ts rei t n t t e tme t of i t xicati

due t 466 oentg I greal p thol greal c fe e ce gic 1t atm tof ulce due to 467 p ot c t n gain t d t 467 563 Roe tgen r y dagn R d ogr phy fsi se off ce 4

of tumo f audity a re dang flumb cephalogr phy c s fbr n t m a inflation d gnoss fbr d pn l cordle n I of g gre of g g s fc ren mat u le dang flumb r friblid de fgliblid dee 34 m tnof as lee by furpjett 9 matgphe f

mall a test ne 28 nm o h g 30 s its ity f ade is to dm thod ip enth adr al jury during 45 lu ld p periost lo teosa com the ps 3 lp ln hæm thages 58 fleet f h tology l od 1 lymphade p thy a found by dect my drgt tmnt obligical ficts
163 dg teuweof rumfome et m pat ts
bet dt ndd es n facto 164 oe tg n s bi ct dt s b) c d t nd d c s n racto rod o etg n timul ting does c t m 61 present stat s f d ep 64 use of n h lt g 64 roc tg unju esa d 1 p 6 t p intat n fc ac t man man s b-jected t 66 e b alt m cured by deep 66 as c ma of 0 ara w th multip in t t e u d by lt r u gery t 7 h alog t n 1/5 us nd c rad j ress t 6 n method f c a cer 66 s ge y 167 n tou I vpe thy d m 95 timulati roentg n i radiat n f spl 7 j ries fr m f my m ta a d hæm rih gi metr p th 22 ct n f mea ured dit dose o 1 mat of t rin 2 I te recurr e fosteos com ft r 4 b logical pri c ples f 26 do g 51 lmut t finc c 6 n we m thods f deep 63

u f deep ts e d t 263 d ep and sk
cact s 263 e phthalm g t 3 9 of ca fbeat 34 s bet tutio ffo prt ntne to c t 34 s obstante in pit n the c c t 34 se f sodosseurs h w g cu cyolD ch t 370 p se tst tus fd p 37 phys c 1b se fd ep 3 f1 test t 1 km red h ring 390 f malgn ntim is of uppe reptry tt 300 lyng lpricho drits det 4 sprap be absc sell wgf ut me fib m 47 blg cal ch nges aft tt grad i cod Rudlgam nt Rlt mints i pe tin etro is n of tru 46 p cedue to in

cop i Al xa der Adams ope t n 46

SACRUM Absect f dlattw 1 mb t 547 S lp gt Teatmet f ct 41 t bec los 4 7 S re ma Tre tment f 168 Sc lpel Sharp d t nl 16 S n l C g n talel t f 449 Scotiosis Late injuries to pinal cord i congenital d resical treatment t ted by f operat n

Scopolamine m rph e semi a cos n labor 13 Sc t metry Clin cal gn fic e of 394

Sml narbone C s rain teatm told loc to of

453
Sminal esicles S gical p th l gy of 37

Sep I tr e us tryp fla in ther py 61
Se oth rapy Go orrher l arthrit treat d by intra
4 1 c 1 inject on of intig coccu serum 51

a ici injeton of ning coccu serum 51
pes tst t sof i g orrhora 544
Serpe t om Hæm rrhagie p ere titi d to ff ets

Should r R lax tin f foll ing bo jrs 356 pp.ng 546

p ng 546 Sgm d Ci cul t of gmo! ectal segment ad nomyomata n olving 212

and nonycomats in olving 212

**ex Nay, mint of asl 21 st syst meet in the Nay, mint of asl 21 st syst meet in the State of the State o

anl t chrodt codry to d a of sal a soo y 499 Skin De pr tg n therapy and rea ti f 63 cl kal u of ut s beutis tra pl ntati 367 tran pla t t fg ft fud a tin feurre to we mas r

460 profe se itzato in graft g f 561 Shull Ot in lt f i val of de mp ess v ope 1 06 nige sign of i rea ed tracran lpres 93 immedate rrect o f dep es f 1 wborn 30 r al rad graphy 309 p ognosis fte treph nat 4 5 c mpoul dr oce b l

Sitiamp Som u f 80 a said t h tolog I rese h dophthalm d gn sa 3 4 I n s se w th G il t a d nd corn I m c osc pe 407

tad nd corn ime osc pe 497 Sod mest t Ham it at n f 258 Sprm te rd T m rs i 543

Sprm tc rd Tm rs [543]
Sph d Post d tification of 19
Sp al d \ fluo 1 degrous fd acs of 1
1 timp uset incoger t Iscole
1 tim t n 1 mo-chm al 1 dy I units
p nal tumors mp es n f d results [1]

I for it is 1 no octain at toy, it amends a past tumors impers my sew inhodustry states in the tumor of tu

The baby has been a superior of the superior o

Splanchn cotomy Effect of bil teral intrathoracic sympa th cotomy and on m to function of stom ch 21 Spleen T be culos s of an form of cold absc ss treated by ple ect my 38 treatment of ham hages by

to tg 1 rad ation of 58 endoth loma of 1 9 abdom n l co tu 10 and subcut n s 1 juries of the vi cera 217 stimulati e roentgen adiation f 2 7 Paptur of 474 and digestion 529 Splenectomy Curati e tre tment by of ch

bocytopen c purp a hæmorrhagica 156 th alue of in primary a zmua 59 reaction n b l p gment secretion f llowing 5 Q

So at SeStrab mu Status epilepticus I at 1

w man with got r bj ct i t cophorectomy o Steril ty Simple method f to t ng patency of fall n

tubes 341 incidence of a nere 1 d case in 429 adn al organs in rel tion to 4 9 d gno sa d tre t ment of 4 9 s gnife nee f cere c 1 p th logs in 4 9 rel t n between adocume gland d 4 9 Sterilization Impro m ti adjusti g t bes f Car 1

Dakin tre tment : pe fic 1 w d 61 fall cy of using alc hol fo of urgi l trum ts 259 of

catgut 367

Stomach Tum rpr b bly fn nach Tum rpr b bly fn tis origin de l p g in wall of 13 moder method f t gati g d ease f at effet fbltrlntrath ccsvmn thicot my and spla ch c toms upon m t f ct o far hæm t mes ad m læ adu t hr c nort ts simul t ng g troduod | 1 il gat d f utralat gastr th apy with refe en e t and 23 p f at of 3 4 05 3 9 4 5 l c l indicatons n d gnos f l f 3 su gery f ulcer of 4 206 o 208 33 ul 1 t roentgen d gn s of ca c mat lee 2 ice 25 a ly mosis of c r by g t hs 5 cor xpenm ntal tudes f a u tue n lys 5 comp r d gnosis of c f 26 re ew f p t ly d path lg lly pr deses of r 6 pe ted r e t of 1 pept ul [j] m 9 yph! of 447 r al i fice cy mpl tingg tri tet ny 4 ôl f vagu fib sin ug lt atm tofulcer g sind g fc d l r t 6 ptoby cin m tographic e m t by centg n y cu bltv of inoma 6 ge it l pyl c steno is in d lt 4 lato hpbet e d se ses of dit de geniti mi gatne chanel 4 pt ty fall of a dp gatne lymph t t ch cg tod odn l ulers 4 m lgnatdg tn f le s f 2 s 4 m lgnatdg mp nied by df mities f peptic ulc r pepticuler mp nied by d 1 mines i c is bl by X ay 5 l ton h 1 between le of a d ppend the g t my t m 1 f che leer f o 8 d tt ft i tm t of p t t operated ponf leoglitch hip bete d intet with p tt tt ld t ln 1 increase of don't gugtt

1 increase in the second of the oo dodni gugatt a ur 33 u es it i 33 p te balimecton foce e diffictation gos 338 f l f t le f 43 ecurr nt ler f 46 complat s f ll g p t nf l 46 roe tge ologue l t dy of b g t m rs f 47 d elopm nt f dry c f b t fter pula f t m f pyloetmy f 48 p d cled t moof 418
resect ft cld dod al | 42 pm pl
ft atm 1 f | 50 S / C t s t ti t t ct

Strab m Muscle recessi n f 394 surgical t eatme t comitant sount 405 5 bma illary gland Carcinoma of 2

S ct o Use of in d ea e f acces ory n sal sinu es or d cks point Tru impo ta ce of r

c tacture 55 a a th sia from p nt of v wof 368 ge y Relation f d physiol gy 269 tu e Comp rat e e perimental studes f var ous

d in surg ry of stomach 26 elatio ship of je lulcer to u of unal sorb bl 420

Symp th ctomy 97 effect of nerv f eezing and p iar t n l on ves el of limbs 4 late r ults and un f abl r sults f periarten l a lappl cation of thi per t n to rter o cle otic ga grene 14 eff ct of bit tetal cervic l n respi ato y mov ments 4
pos bit ty of rele g angin pectors by resect n
of po t r root of corre p ding sp al ner es 5 oper ti e tr atment fangio pa tic att cks e peci lly oper it est atment tanger pa to ast case e poor ny a gina pe to s 15 e ct n of sympathetic fo g a pe t ri 16 m lorati by rt il of s s ry a d cir lato y dist ban es in hand due to incompl t et of bra h al pl s 08 end re lt

of penif m alfrp fort gpl nta ulcrfollo ct nof scatt n 98 ndel yed soldat the noiseau n 93 notes sed so data n ler fly 82 tame to krau o vul zeby fhyp gastr a tery 27 e i mat of ymp thetic gagla phthalm cg iter 404 pe t e t e t m nt f gn p ct n by e t pr t nof cer ic l nd the r c ympathetes 48 p a t nal and

I on the off g 409 Sympather my leffet i bil teal 1 tatho e pl chn tomy m to fun ton f st mach 2 Syn i hy pub S pp ti a thr tis f d ng pue

penum 44 Svihl Hem opi a sole clin al fe tu e nu t cated co dary 3 4 1 den of veeld ae npr so with te lty 4 9 p tpart mf er cau ed by 537

THETH Is ct of diet on set ce ft cas 92 ch ng 1 struct e ff m df nt det 38 d tal mp to sad ther seq læ 318 lct e iclati ye fbctna frm infected 393 iclprto n mailiys us and d m get 395 cae of d n gpn talpiod 433

T mp ratur Aft r trum clomy 8 T dn Fn ton lpr go of sut e of 5 treatm t dn r n ton ipr go ot sut eoi 5 treatm t floc l dpa lys shy graft golded 149 cl c l bet at 5 tunning f 250 re ults f phy o log calt an plantat of 50 y vitt Sapp t of fix m scl f had 356 tub cul u of had 357

tub cul u otha d 357 fild ultin mign td se fra pathl sy fn 1 lms f 36 g ft n mmal dm 446 m lg a ttum r of n child e 446 eff ct f po et rad m 460 tum r of 543 po et rad m 400 tum r 07 543

I tu Mag um lphat e mat in 6 et locy
pophyl s ndt atme to 0 250

Thus de amptton f 360

The sa pl ty I tube c l is fl g i7 g aded e t a pl ur l i diff e n lateral b onch ectas s 515

Thor v S Ch st The mbo- gates oblite an I feet song n of 58

mbo Di gn is and tratme t f ptcsi s 87 m it pl d st tven s n thr mbophl bit s flat n f l ngi 456 et n l ven u 498 m Relat n of to thy d n r ts 68 di gnos Thym

adte tm t fe larged 51 d gnosis of e 1 k 1 ly \ a) a lte tm ntly \ y r d m 517

Thyr d Surgery of 7 of nirat ach altum rs of c d by oper ton 17 lateral aberrant and t mo s of re st n e of t a tion of rad um ravs ou relatio ship betwee and female ge itals 105 relation of a tes den is nd thymus to nrt 268 pati Il I manag m nt of diso d rs of 3 8 action of b ried r dumonds sed nman 319 carein m of la-ual with m ta I ses n I ngs 320 phy of gy f t ol of d eases of 401 s man 40 t late hip of c rescales, path tic to 4a effect frost e on 402 fu ct n 1 407 re i w of 3 ar w h a th dise e of so f cit of and lo red mo tal ty foll wing sarg cal tre tment 5 2 5 al G ster

Thyr de t my Temperat te foll wing trum ctomy & acet n me pi dar ig trput ntsadch g n blood act dn h thy d pe at ther ighted n relat to s gery f o

There dis Treatme tof uppurate 4 t There is on Life t of centre ray the py a mau d by ba | met bolic rate 3 2

The Fre ture n rankle it curved a rosteot my of ing hu leum nd gen arum 36 pr g oss a d t im nt ifractu es of the l gan lanki 361 o teosynth is of daphys al fr tures f leg 455 To gue abscess f gs tuberculos f og can e of

193 50t Ton if t my P t reatic omf rt in ton I cases 6 alcohol i 1 ctio a a poss bl djun t to u le local esthesia 6 nd all fr dr trandicati a to in ad it 300 ho choscope beer tons n court rellex in under general a sistles a 400 ge e al

effects of local north ties admit to d s i 56.
Thought B of n logical bereating n acute with fect p dem of gy a d u ceptibil ty 194 This tut accurate n radium a d X r y in treat m nt of malignant t in rs of upper pratory trat soo by logical treatm tofs room f pper respira

to y pas ages 300 Turn ys rea to 88 Intratrache I tumors I thyro d gland 7

Trach fist fization Subdi 1 s of tubercul us faryn got streat d by 4 t Tra main et ol gy of org c nd f nct al ners u

dise & 512 T cphinan n Isl of cr tald comp e ta operat s of prognosis aft 1 405

To hi racet c ac d Tr atm t I d m id and othe cyst

Trigo es irgically to 5 de ed 445

Trypaflavine Sie Aer flavine Tuberc los a Chinical find ngs n 54 s spical tubercul les ons 65 marn ge pregnancy part rition al 129 use IL g l solut on m surgical 59 a t l s icalf ct r i Hodgki s d e 559 5 af names t org h and pa t T nor Giant-cell 356 S ! nam log sad

parts

ULCERS Sympath t my to of leg 98 per 14m l sympathectomy d no se of leg 400 roe tge ray e pecially their su gical treatment 467 Se of names I rgans a d p 1s

Ulna Bilateral congenital synostous of upp part of rad s and 546

Umbilical cord Length of 35 Ura ost phyloplasty End result. f Langenbeck s 192 L'ete Transplantation f int intest e 48 354 540 nn ri ton of pper po ti 136 urm ry inco t ig to mpvema of t ps of fil wing complet

ur te e tom; se dubl comp e i d by pyel ne phint 14 trainent f wh chirect my is d ne for tuberc los 14 te al fiu 442 445 diag nosi a d treatment f calcu i kid y nd 530 tr tu f 540 Uct eet my E pyema of u eteral t mps f lb g

incomplet 14 Urete ostomy P rm e t bl t ral il ac 445

U ethra I e tment of s junes of m le s u n ry ym, t main w men d e to p th lory i 143 di teula a depets f of trea ar nt fs i ture I by form t nofe had necestricults to see

Um ary teste 543 Umarym ti ce I femal d tod 11 t r with abn rmal open g 140 pe ats t in tof n

fem 1 235 452 Unn ry bstructio Blood p es u i Uno rs tr ct Col n b call niet of and m de

I R pr gna Cy 344 Un tin Treatm nt fd stu ba e f with magnes un

ulphate 355 Unn R lat n i cereby 1 al A 18 to 1 moral o of b t import is suppore of fill wag do bl p elography 144 ho crt to of or urnng; y unc boys 543

ou high n of a treatment f Uot ba Itr pyel ephritis e mplie t g pregn h

Ut rus I ope bl ep th ! ma of ck f cured by curet tage and rad m so t atm nt I se e harm rrhag fr m ly rad um 30 ratumt tim nt of ca cer of 32 123 124 23 22 34 343 4 7 than est es el of d n g pregna cy 42 local studes of n w n lg 1c (ma atrik) in obst t calandern ologi cal p actice 43 Olh usen operat on fo su pens a lymph tes i sa te tm 1 feanter f erit result a fibromat of te ted with radi m 3 tuberculo is feery of 73 sug ya d adium th rapy comb ned in cance of 4 tr atment f cerr co utering ca ce by hyst ct my follow g dum the py g rat forms of sac ma f b ur te ovaginal hat la f il wing byst r ctomy 6

a 1 aft rowa sneed h 133 29 cysts f 220 ham t m tra 2 d su ta rv cal 5 hm cous fib d 20 hemorrh g d to intr and trauten fib id 22 nj nes f om roenig n tr tme t my mata a 1 hemotrhame met opath es 220 cance f 2 my mata f dp gnan y 6 p gnan y ind bl 344 testm t fpe fo at n of 348 r la t m rits f perati n round lg ment f f retro, mion of 4 6 p ored et i crease ope of Al xa dr Ad ms pe at a 416 syst m. t mnl y m nt fMk iczdra g nhyst t mv i cz ce f ervs of 427 unrec gaused as a oma 34 e n ect n for carc noma f both o an a d tva uth la ge metasta e 1 m osigm 1 345 fib oma I simulating to trupted or gna cy 4 6 pray be becess following roe tg n t tm tf foroms of f cerve I path I gy a t nlts 427 1gm f 11

I to n of b Lach to gynecol gy 43 repa of birth lace at o of c rvi. 439 hydro-ur ter s d hyd neph osis a frequent s c udary fi di g prolaps of 44 unn roat n f 530 fatal uppuratin p nt niti occun g n foentgen t eatm t i hb o prices occurs a reconsecut eating the majora of 52 1 see s ferve cell attimp fs pragally ablated 53 tre t at of gon riferal e decerric ti by he t 53 weight of near in relation to 53 5° at 6° tal rigate at of gon reforal

VACCINF the p Value of a purper letter

134 23 b logs It tm t fsu ma f pp r

I local mmuniza resp tory t as 300 r lat t on to g neral immu its 460 present stat f in

gonorthera 544 Varinal Ureterovaginal fistulæ following hyst rectomy 126 m ltiple cysts of 223 un sual acc dent dun g delt erv at term 228 colon bac ll s infecti n of du

ing p egnancy 344 V s defe e s Gr fti g I vein in 5 reju e ti vesper me ts w th light n of 238

V in E ten i e hæmorrhagic extravasation from en u yetem of Gal n o grafti g of in as deferens 51 tre tment of etention of pl centa by a jections a to

umbilical 229 retinal n th mbo 1 498 Vent sculog aphy 505 i loc h at f i trace mil

tmrs of B eech p t tios t at d by p phylact

t rn 1 228 det hyper Vertebræ Comp noft hipl rse proce es 1 tr phy of tra t br 13 p th les nit tment f ompr Id reolumb r 15 dors lizat of s fr tur th ervical vetebr 546 abs c of crum nllat two lumba

Visi Bitempor le ntract noffild fipg

\ al co ds \ rix of g operat e c r ect of bilateral m d an position of 400 p ralysis of both, see ndary of bilateral to mal gn nt tumo s of mammæ 503 hithe to unde scribed function of 5 3

Vulva T catment of kraurosis of by sympathectoms of hypogastric artery 127 treatment of cancer of 420 roentge carcinoma of 468

Vulvo ag n t s Gonococcal i fecti ns in lower genital tract of female infants and you g girls 342

WASSERMANN test Cerebromeningeal tumors and

VV 4 7 W. ght. In pregnancy 343 phys ological loss of in n w born a dists c t 1 44 horn a distant facture 353

Wilf la 1 halog of facture 252

W uni Imp m t n dj ting tubes for Carrel Dakin treatm t perfi l 61 tr tment of pyocya eu ifct uppur tig 50 b cteri logy of clansed galt g 307 b cteri in septic oper tie a d behar f dr in gem tenal 36 Wn t Later ults of traumatic lesions of in childre 253

X1 ROPHTH \L\II \ 496

71 COM1 Tealme t If actue of 453

INDEX TO BIBLIOCRAPHY

SURGERY OF THE HEAD AND NECE

He d 69 70 27 372 473 565 Ey 69 17 270 37 473 56 7 171 71 373 474 565 Nose 70 7 7 8 3 474 566 M uth 70 17 27 374 475 567 Thro t 7 17 272 374 475 567 Neck 71 7 27 374 475 566

SURGERY O THE VERVOUS SYSTEM

Banad It Corings Cra al Nerve 72 72 73 375 476 568 Spinal C rda d It Co rings 72 73 73 376 477 568 Penpheral Nerve 7 173 273 376 477 569 Symp that c Nerves 73 173 274 376 477 569 Miscella e u 73 73 74 477 569

SUR ERY OF THE CHEST

Ch st Walla d B e t 73 73 274 3 6 477 569 T ch Lungs nd Ple 73 173 274 37 6477 569 T thad P rea i m 74 74 274 377 478 570 GSoph gu a d Med ast num 4 74 74 377 4 8 57 W seell neou 74 275 377 4 8 5 7 SURCE YO THE ABBOMEN Abdom nai Wall a d P t e m 4 74 75 477 4 8

C to I test n l Tract 74 74 275 377 478 57 L e G ll Bl dd I cre nd Spl 76 ; 76 76 77 379 480 57 77 177 78 38 481 575 Misc lla

GYNECOLOGY

Ut ru 77 77 28 380 48 573 Ad zal a d P n Uten Co d ti 77 78 79 38 482 574 E tern l Ge tal a 78 78 79 38 48 574 Vincell u 78 178 9 38 483 5 5

OBSTETR CS 3 and It C mpl cat 79 9 50 38 493 Pregn Labor d It Compleat 9 9 39 484 5 7 Labor d It Compleat 79 9 8 38 484 5 7 I u roenum nd It C mpleat 79 79 8 1 383 485

577 Wborn 79 80 282 384 48 5 7 M scella c s 79 80 282 384 485 578

GE TOU-URINARY SURGERY

Ad al kid es a d Ur ter 79 180 281 384 4 6 578 Bl dder U thra a d Pen 80 18 283 385 487 578 (ital Org ns 81 18 283 38 487 570 Miscell us 81 81 84 385 488 579

SCREERY OF THE B VES JOINTS MUSCLES TENDO 5 C nd t ns l th Bo Jonts M ! T nd ns Etc 8 t 8 4 386 488 580 8 ty f th Bo es J ts M seles T ndo Etc 8 82 83 85 387 489 581 Fr cture and Dulocat s 83 84 36 387 392 581 O th ped cs C eral 81 84 87 389 400 58

SURGERY OF THE BLOO AND LYS PH SYSTEMS Blood tes 1 83 84 287 338 49 58 Blood a d T n f 83 84 87 389 491 582 Lymph \ <eb nd Cl d 84 185 88 389 491 582

SURGICAL TECHNIQUE

Opeats Sngrad Thqe Postope te Tre t Ope at 5 78 73 a d 1 in q e Hostope i e 1 ie i m nt 84 8 285 289 49 (82 i ht plu S gery T e tment i W u ds nd I i t s 84 185 87 390 492 58; V seth s 84 85 83 390 492 583 S recall I trume t d 4 pps t 85 186 49

PHYSICO-CLEMICAL METHODS I SURGERY Roentge logy 8 186 85 390 492 583 R di m 85 86 80 39 493 583 M c ll 8, 86 89 301 493 583

MI C LIA EOLS

Clial Ettis-Geeral Phys ! gcl Codit ns 85 86 89 391 493 584 | Bact rial Viyent and Pr tozoa I feet n 86 87 89 39 493 584
D ctl ss Gl ds 86 90 39 494 584
S gical P th logy a d D gnos s 86 87 90 494 584

Experim tal Su gery 9 494

Hospital Medical Edu t n d H tory 86 87 290

Med 1 J n p ud 39 494

INDEX TO AUTHORS

```
D 1 J S 440
Davis T D 42
Davis T L 144
Davis V C. 138
Dawson J W 240
```

```
Eagleto W P to Eat n I 115
E h m W 114 205
F1 P 211
Ekehorn G 47
F1 ki X I 205
```

```
Fricke R. E. 468
Friedenwald II. 315
Friedenwald J. 114
Friedl e der B. 550
Friedman L. J. 198
Froel ch. 450
Floons 428
```

```
Davis T L. 144
Davis T L. 144
Davis T L. 144
Davis T L. 144
E bin N 114 205
Davis V C. 135
Davis O C. 135
Davis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          G nzburg L. 353
Gusbal A 508
Guillemm A. 548
```

H roung 127
Horsley J S 2 7
Hotsley J S 2 7
Hubbard R S 310
Hubbard R S 310
Hubbard R S 310
Hubbard A 255
Hubbard A 255
H at V C 221
H n tr G L 54
H at V C 221
H st A F 500
Hu t n H R 107
Hyn n A 41 Hym n A 41

Imb t L 25 Inlow W de P 529 Iron E E 310 Irv1 F C 536 I ac knieger K 209 Ihd 64 I y R H 308

J ck o A S 4 3 J ckson C 18 Jacobsen H 333 J nke H 144 Jaroschy W 1 Jass n tzki W o W 60

kahn M 343 k ll b ch A k avel \(\) B 35 kant J L 3 kapp M 68 338 k g n J J 3 3 ketth S A 5 6 k th D P 64 k ll R 345 345 k ll R W L 99 kellogg J H 6 k ll ll A 335

L Ison W H 194 Kern L C 519 Ker ison P D 315 Key B W 393 Kirschier 247

Klaften L 432

Klose H 40

Klots D 154

Klugh G F 545

Knaus H 105

Knight W S 314

Kn R 309 471 63

Koehl r 4 245

Koenneck W 107 418

Kol In L 248

Kol In L 248

Kol In L 248

Kol In L 248

Kol In L 248 Kirschner 247 Kompa ejez G 191 Ko nch F 367 k mew P G 06

Laewen
Lag of F 27
Lah y F H 5 2
Iambert A V S 5 4
L mb t W E 190 Lambott A 251 La dsm n A A 33 L nd m I J 453 L nd m I J 453 La g h 55 L point 44 Lapo te G L 4 Lan m W J 4 La Roque G P 34 La J W 549 L town ck S 59 259 L t pet 1 136 Lattes L 364 Lattes L 364 Lt L W 65 I cé P 53 Lee W E 459 Legg \ T 548

L gueu
Lehm W 200,
Lelè A 44
Le Lo 1 348
Le Lo 259 Lemu A 6 Lem W S 559 In rm t C 13 In rm t C 73 L nch 08 90 440 Le 1 he R 7 53 Le 1 T 5 6 Lé 8 J 1 6 Le e f J 2 Le 1 S A 47 Lé 3 R 443 Lé 3 S 03 1 2 3 Lé 3 K 443 Lé 3 K 443 Lé 3 K 443 I w P 440 546 551 Lewis D 324 463 Lewisohn R 208 Lexer E 246 Li T M 189 Libenthal H 61 516 Linell E A 236 Liss W 349 Lister Sr W 498 Lister Sr W 498
Little C C 465
Litzenberg J C 226
Lizzondo R 405
Ljahn I L 164
Lobstein L 216
Lockhart Mumme 3 J 1

og 110 Lodg S D 136 Loewy 418 Logan 1 H 30 Log W B 52 Lo gcope W T 37 Loom 5 F V 4 9

Vacht D I 38 M ckenze W R 44 Vag u J 164 Vahnett A 65 534 V dág n J V 31 Vac R J 31 Vac R J 314 Vac R H 34 Vac R H 35 Val R H 34 Val R H 35 Val Mandel tamm AF 4.

M nn I C 89

Mann A 43

M son Bahr P 200

Manteln A 43

M n iff W P

Mah d L 9

M nne D 4

M hall J A 3 8

Matt n B H 2 8

M tin I 25 Wa nan J. A. 3 s Waten B. H. 2 s Mart d. 1 s Mart d. 1 s Mart d. 1 s Mart d. 1 s M mo tel 1 s M so t. R. 253 W son N. R. 436 W son N. R. 436 W son N. R. 503 W son R. 253 W son R. 253 W son R. 363 W

McC rd J R ta6
McCneten J C 424
McCneten J C 424
McCa H W 233
McGrerry J A 415
McGull E C 138
McGure S 424
McKenze D B O 508
McKenze B D 5 508
McKenze W 31 533
McKenze W 31 533
McKenze W 31 533
McKenze W 53 Metge L 6 Netge E b Net ger 345 348 Mey r A 54 Ney r K A 104 Meyer K F 115 Veyer O 263 Meyer R E 334 Meyer R E 334 M k lberg H B 34 M k lberg H B 34 M lhaud 111 Mill r F M 324 5 0 Mill r J A 54 Miller R T Jr 30 M lls L 3 0 31 Mill ee R H 64 Wills L 30 931
Minet II 64
Minet II 64
Minet II 84 500
Mocqui t P 118
M 200 II 531
M 200 II 540
M 200 II 540 Mout F 04 Mu hlman E 63 Mu ll man E 63
Mueller O 25
Mu ll W 4 36
Mull lly G T 461
Mu d ll J J 344
Munk J 6
M ard 39
M at ll G 525
Mutel 6
Myerson M C 400

Veg | T 17

Nakahar W 66 162 Namura T 4 3 No dmann L 3 8 Norres C C 34 Nak F 12 Novak F J 318 No e Josserand G 545 Nub la 435 Nu sbaum 4 44 Vye R \ 50

Och e E W A 210 O kerblad N F 540 O Co or V J 531 4 Od matt W 341 O K i C D 350 Okinezy 4 1 Okins hewitsel 1 2 5 O'brecht L 42 Ol r R 242 Olmos J E 405 Oppert 2 Orato \ 7 254 OR agan 227 Ott W O 5 O dard 4

Patz I W 150 Lage C W 461 P lm r C B 562 P lmer G T 4 1 Papil ap V 14 Pap L 140 Pappa 47
Pa cher 1 9
Pa ker C A 24
P rke C H 214
Pasch ff C 496 Pach II C 490
P tel 154
Laterson H J 67
Patton W T 499
La cot II 34
P yne W W 93
P J E 232 56
P arson W 556 Peiper II 45 P e \ 12 Pel uz P S 39 P | Leusd n 407 Perm H H 154 Permer 442 Petr I A 1 5 rerthes 63
Letthes G 360
Pet L C 49 49
Let B L 53
Peters W 40
P t t Duta || P 4 9
P trods V 4 Perthet 63

I etterson \ S 348
P tut \ \ \ 429
Pfabler G E 517
Ph ll ps L 41
Phul ps \ C 87
Piers n R \ 537 Pin 1d 5
Piten 43
Piten 43
Piten P 244
Plass E D 434
Platt H 5 1 35
Pl yfs: K 100
Podobed wa N W 217 Poeck E 344 Polak I O 130 Ponescu Inote ti C 21 Podes F 61
Prie J L 449
Pot M H 498
Potot hung G 38
Potteng F M 49
Pougy H 14 Pouget, 23 Poult n F P 3 Put 23 Pre n C 38 Pribr m F F 2 5 Ir (chard J E 52 Qu l D 63 Qu mby E H 464 RbotzHM s8 Rad e L 553 Radul ecu A D 198 Radul Cu 1 D 199 Rafi 443 Ra ne U R. 146 322 R món y Cajal-R 40 Randall L 43 Rankin F II 50 Rankir F W 30
Ran F 7
Rapopo t B 6
Rascol 20 23
Raul I 520
Rea M H 363
Read J M 5 Rebattu 399 R d r I 53 ke b 226 Regad G L 49 kh F 45 351 R d S r 1 563 R mh rd N 4 404

R inh rd N 4 424
R naud 1 267
R nd N J 38
Re t j M 4
kéth 1 400
R ybold L R 4
Ri h d L C 424
Richa uson J J 39 Richa Lson J J 39'
Rucher \ 149
Ruber F 369
Reper H 67
Lucsenf M L A 440
Riche H P 5 4
Rober C N 3 8
Rock T B L 50
Rock J L 6
Roed re C 544 Rogers A R 141 Rohde C 107 Rohe-ton S r H 108 563 Roll t 190 kom ti C 141 Ro ali B 165 Ro als B 165
Rosenbaum Canné P 26
Rosenbaum A 217
Rosenfeld A 27
Rosenthal G 401
Rosenth I N
Rose E L 561
Rosse C 213
Rothe E 365 Rothe E 365
Ru 1 150
Rou 1c J M 349
Rot J C 2 4
Ro 1 g T 3 325 527
R wley W 433
R wintre L G 4
Royle \ D 51
Ruben I C 442 Rubin 1 C 442 Ruel 11 367 Rugh J T 25 Ruh H O 364 R k C 1 1 5 119 Rass II R H 553 Ride G II 28 Ryerson E \ 452

Saft d H B 350 Saleil 113 Sal én G 6 Sam els S S 354 Sam eis 5 5 334
S d rd I 7
Saner F D 461
S fo d J H 541
Sano U 56
Santaelis R, 1 31
Santy 98 a sinty of significant of significan Sch nz 04 5 h nz H R 453 Schmitz H
Schmit B P b
Sch dr J P 5 4
Schoenbaue L 367 Schoenbaue L 307 Scholl A J 3 54 Schube t A 53 5 Schulhof O 57 chupf F 4 2 Schwab E 348 Schwrz b Schwatz O II 42 1 Schwyz 1 5 4 Scott (2 0 38 Sett S o Sebek A 3 Sédalhan I 340

Seele M G 4 1 Sein F 97 Seiffert 251 Seinert 251
S Imann R 3 9
Seitz L 465
Senc 11 L 457
Sénèg e J 13
Seyerlein 168
Sh pley V T 433
Sca d J A 151
Sch 1 A V 3 4
Si Imanu H 466
Sthole e Manna H 466 St bnann H 460
Silhol 20
Silhol 20
Sh bol J 1 5
S mon S 48
Sump on F E 469
Sncha A H H 304
Snch A H H 304
Snch I M 455
Snch I M 455
Snch I M 55
Sixtenfi id M J 563
Sles ng E A 100
Si mann H C 555 SI mann II C 555
Slude G 500
Smith C E 119
Smith F C 433
Smith S Mac C 395 390
Smith S Mac C 395 390
Smith S Mac C 395 390
Smith A G 354
boyd I J W 555
S yd I W 18
Soed ibe gh G 13
Scenarios I 10 Socretsen J 19 Solcard 453 Schen S 28 44 So pensche R 6 Sort I E 47
Sosman M C 50R
So th m 4 II 36 236
Souttar H S 406 paid g \ B 4 3

specht O 214 Specht O 114
Specht A 50
Specker W G 166
Spo B I 1
Sports F 101
Squer J B 50
Stahhle D 19
Stahnke L 4 3
St f nowith M 58 St 1 novited at 5: Sten h le H 339 Sten O J 397 St 1 berg B 437 St nr s F 42 Sten from W 563 Sten from W 573

51 mberg 1 54

51 wart M J 30 4 4

51 wart M J 439

51 ors F J 457

51 rrs R W 430 Strandbe g O 5 3
Strandbe g O 5 3
Str D C 80
Struth rs J W 4
Stuber B 50
St key L 23
St ble L 20
St lz F 4
S rm ndt W F 33
S mme J F 47

Walser J 13 Walshe F W R 397 Walters W 54 Waltha d K M 433

Talbot J E 534 Tallerma n k H 214 Tussig L R 364 T vermer 241 Taylor F B 115 Teag rden E J Jr 238 Tédenat 220 Telande R W 222 Thallimer W 134 Theilhaber A 67 Thole E F 318 Thomasson A H 3 2 Thom H 229 Vinso P P 9
Thomso J F M 564 Virt 12
Thomson S St C 94 503 Vogele L 138 Thetze A SSI
T e J \ 189
To ok E 310
Tou eux J P 25
Traqu H M 498 Tristant 1 546 Totter W 368
Truesdale P E 93
Tuff 25
Truer W G 548 Transco D 57
Tyl A F 3 Tzanck 23 Uffred 1 O 35 Unger VI 91

Ū1 34

Vand hoof D 420 Va Dolsen W W 537 Va Neck W 56 Van N ys R G 327 Vance ts J 127 344 Vaternahm T 52 V ys 1è re 226 V 38 ie re 220 Verno 1 G 458 Verrall P J 35 V1 2y 403 Vignes H 345 Ven t \ 02 Vmso P P 9 316 \text{Ymno P P 9 370} \text{W1 tanabe T 2} \text{Varion D 504} \text{Varion D 504} \text{Volne C 126} \text{Varion D 604} \text{Volne C 126} \text Vo on 435 537 V on J 349 V VI o **V**rân 4 WhIIIR 5 9 WhIWT 427 Wittfeld W 2 Wakeley CPC

Vail D T 88 Wild toem II 244 Viassopo lo A 258 Wild handt R H 51 Via de Hoe e J 3 Wilner A 268

Waltha d K M 433 Walthe H E 324 Walth P 44 Walto 1 J 7 412 Walzel 36 Namberski N 21 Ward E 29 Ward G E 335 Warren S L 371 466 Warthin A S 466 Wel 48 4 7 Wismann \ett 48 4 7 Wrms G 4 W t 1 1 405 We n 1 532 Weth mr 00 268 W them P 97 5 8 W 1 L 471 Weym sch 1 4 Zentmayer W Weym sch 1 4 Zentmayer W Weym sch 1 4 Zentmayer W Zentmayer W 310 360 368

Whippl A O 118
Whipple G H 371 466
Whitaker L R 365
White C I 52
White L C 60
White L E 19
Whitehou B 530 Weden pf 14 Wiener F 200 Wilder W H 497 Wilensky A O 96 354 Wilkie D P D 461 523 Willems C 148 Williamson C S 139
Williamson G S 401
Wilson H S 203
Wilson H S 203
Wilson S 1 A 512
Wiltern 1 A 322
Wilson 5k1 1 W 354 Wither S 261 Wohle muth K 243 Wortsch wsky J B 35 Wolff J 312 W koff K W 06 Wood F C 261 262 Woods II 497 Yates Y L 3 7 Young H H 143 543 Zache 1 H 65



